

Service Manual

ORDER NO.
CRT1420

MULTI-CD CONTROL FM/AM TUNER DECK AMPLIFIER

KEH-M7300TR

UC

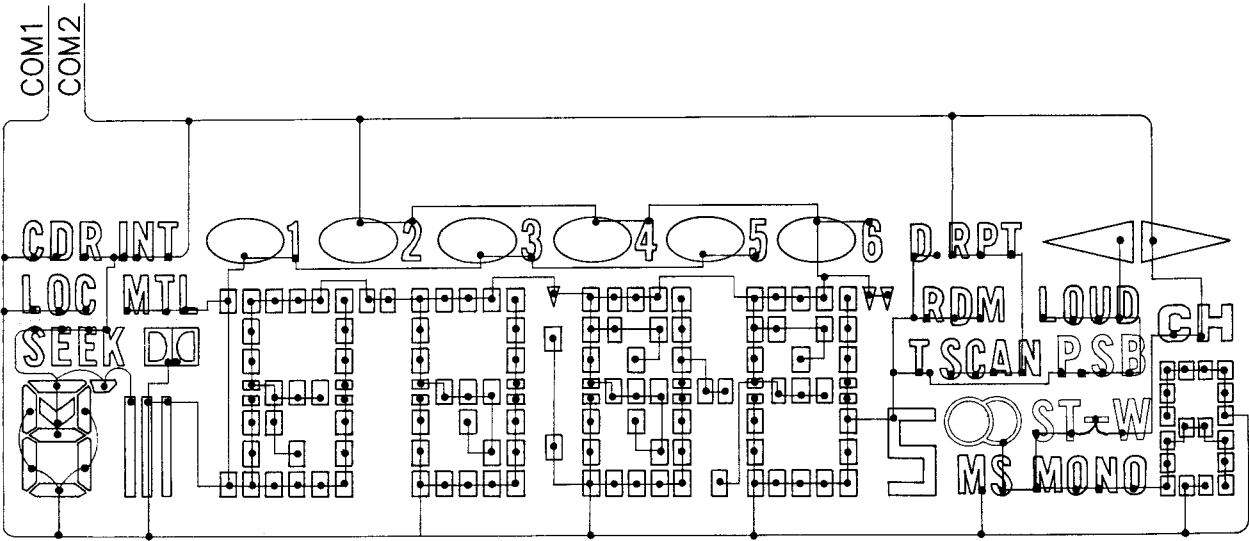
Note:

- This service manual is designed to be used together with Model KEH-M7200/US Service Manual (CRT1382). Refer to it for finding parts numbers etc. which are not shown in this manual.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

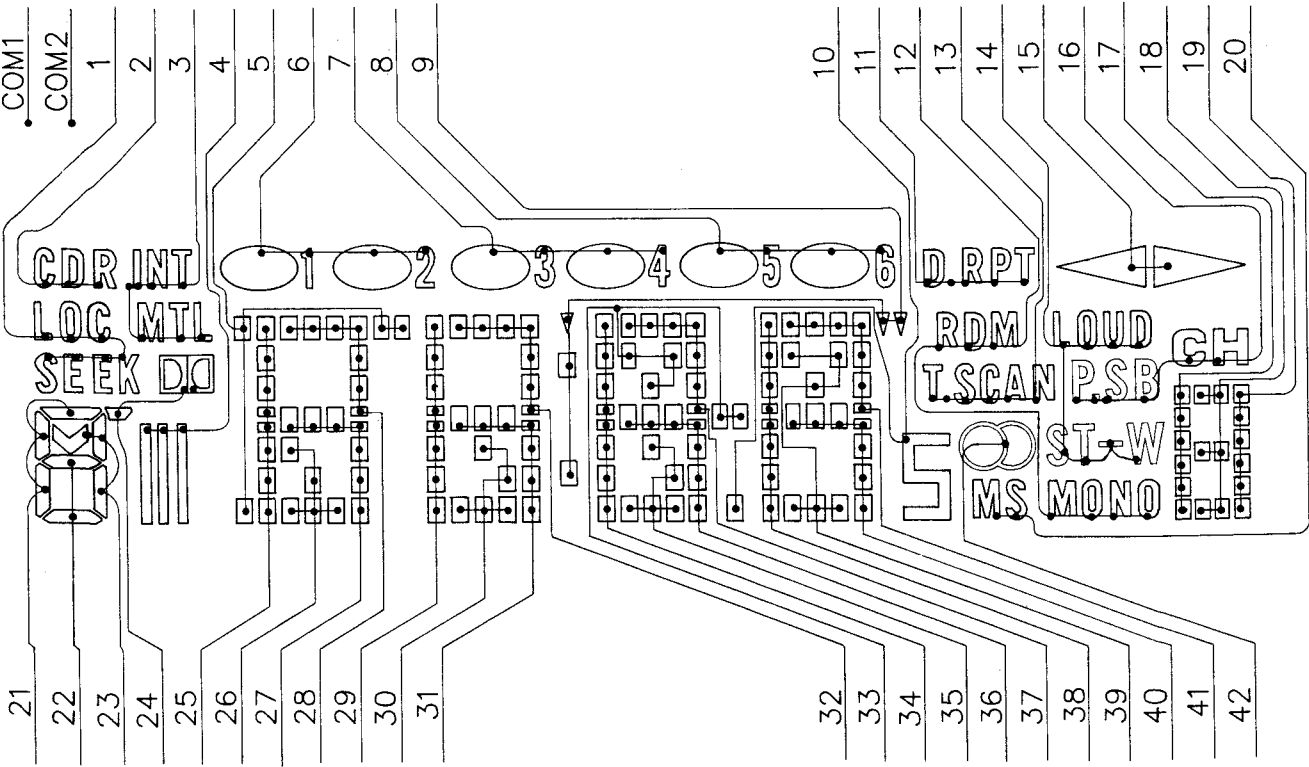
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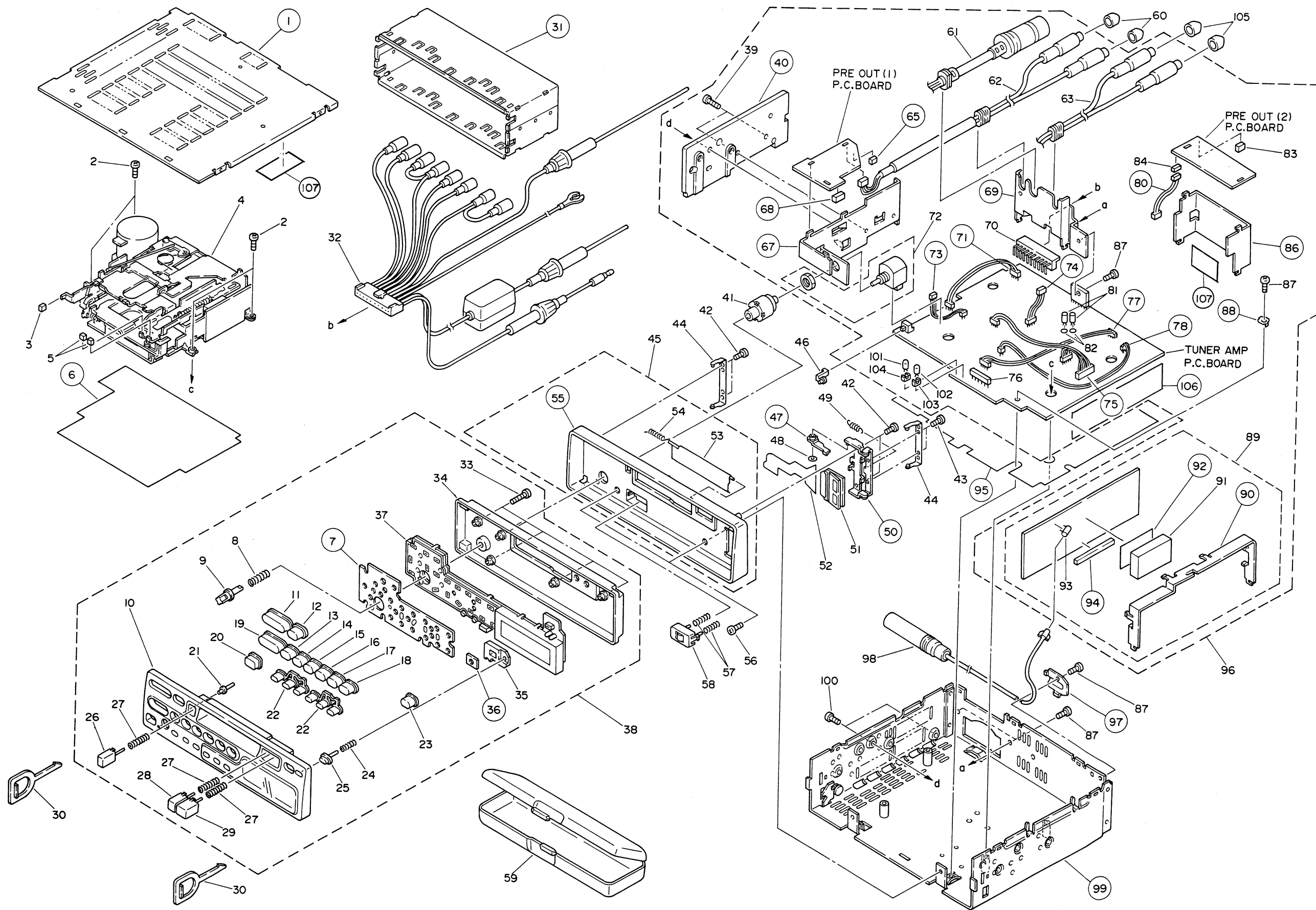
•LCD (CAW1125)
COMMON



SEGMENT



1. CHASSIS EXPLODED VIEW



•Part

NOTE:

- The sub
- Bec not

Mark No

Fig. 1

•Parts List

NOTE:

- The parts marked with "●" may need long time to supply and their supply is subject to refuse as the case may be.
- Because the parts with encircled number shown on the dismantling drawing are not spare parts, we are unable to supply them in principle.

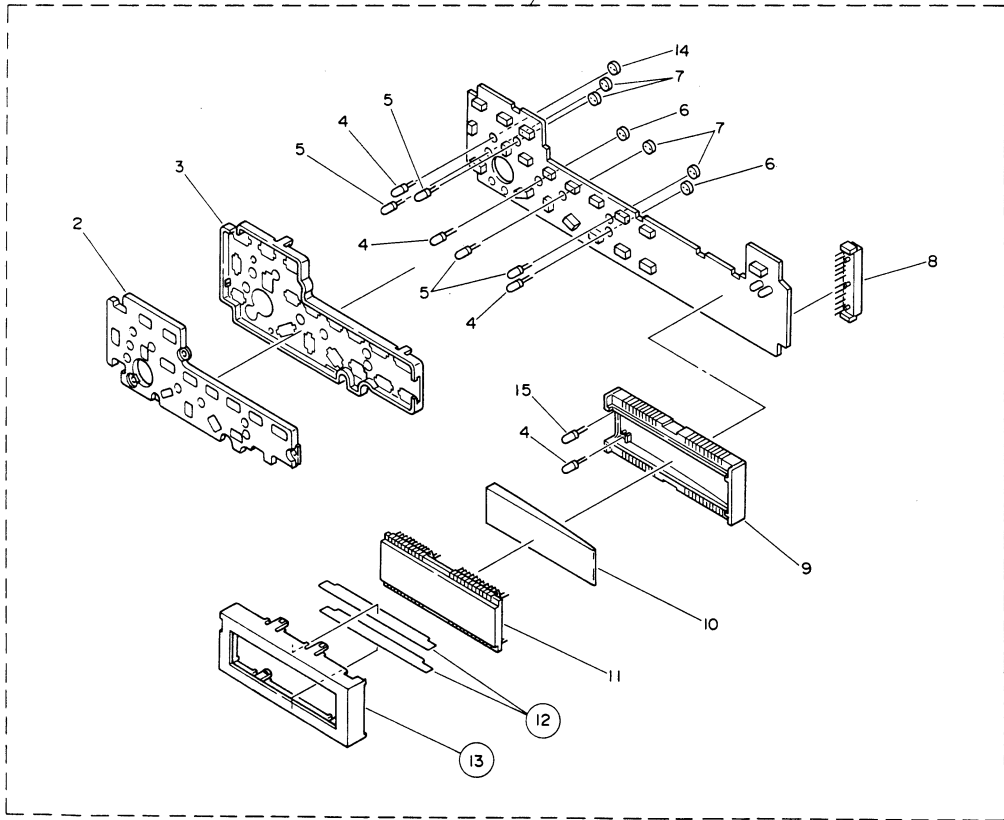
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Case	CNB1431	45	Panel Unit	CXA4470
2	Screw	BMZ26P050FMC	46	Button	CAC2988
3	Button	CAC2819	47	Arm Unit	CXA4000
● 4	Cassette Mechanism Assy	EXX1735	48	Washer	CBF1037
			49	Spring	CBH1395
5	Button	CAC2820	50	Holder Unit	CXA3999
6	Cover	CNM3157	51	Socket	CKS1664
7	Cushion	CNM3155	52	P. C. Board	CNP2597
8	Spring	CBH1391	53	Door	CAT1385
9	Knob(Fader)	CAA1272	54	Spring	CBH1437
10	Grille Unit	CXA4469	55	Panel	CNS2354
11	Button(Vol)	CAC2932	56	Screw	CBA1154
12	Button(Shift)	CAC2822	57	Spring	CBH1393
13	Button(1)	CAC2811	58	Lever	CNV2998
14	Button(2)	CAC2812	59	Case	CNS2269
15	Button(3)	CAC2813	60	Cap	CNW-829
16	Button(4)	CAC2934	61	DIN Connector Cord	CDE3419
17	Button(5)	CAC2935	62	Connector	CDE3157
18	Button(6)	CAC2936	63	Connector	CDE3156
19	Button(Tune)	CAC2933	64	.....
20	Button(-)	CAC2817	65	Plug	CKS-783
21	Button(Clear)	CAC2829	66	.....
22	Button Unit	CXA4132	67	Holder	CNC3579
23	Button(SD)	CAC2826	68	Plug	CKS-785
24	Spring	CBH1390	69	Holder	CNC3753
25	Button	CAC2827	70	Plug	CKS-467
26	Button(Eject)	CAC3128	71	Connector	CDE3171
27	Spring	CBH1443	72	Volume(Fader)	CCS1186
28	Button(REW)	CAC3129	73	Connector	CDE3208
29	Button(FF)	CAC3130	74	Connector	CDE3173
30	Handle	CNC3664	75	Connector	CDE3174
31	Holder	CNC3342	76	Connector	CKS1260
32	Cord	CDE3181	77	Connector	CDE3210
33	Screw	BPZ20P120FZK	78	Connector	CDE3303
34	Grille Cover	CNS2151	79	.....
35	Lens	CNV2774	80	Connector	CDE3172
36	Cushion	CNM3156	81	Capacitor	CCH1016
● 37	Key Board Unit	CWM2695	82	Spacer	CNW-662
38	Grille Assy(D)	CXA4551	83	Plug	CKS1238
39	Screw	BMZ30P120FMC	84	Plug	CKS-786
40	Heat Sink	CNC3747	85	.....
41	Knob	CAA1250	86	Holder	CNC3577
42	Screw	CBA1179	87	Screw	BMZ30P050FMC
43	Screw	PMZ20P030FMC	88	Holder	CNC2218
44	Holder Unit	CXA3998	● 89	FM/AM Tuner Unit	CWE1225

Mark No.	Description	Part No.	Mark No.	Description	Part No.
90	Holder	CNC2880	100	Screw	BMZ30P080FMC
91	FM Front End	CWB1035	101	Lamp(Green)	CEL1207
92	Insulator	CNM2105	102	Lamp	CEL1208
93	Antenna Jack	CKX1010	103	Holder	CNV1906
94	Plug	CKS1628	104	Holder	CNV1906
95	Insulator	CNM2941	105	Cap	CNW-829
● 96	Tuner Amp Unit	CWM2677	106	Insulator	CNM3199
97	Holder	CNC2913	107	Cushion	CNM3203
98	Antenna Cable	CDH1128			
99	Chassis Unit	CXA4191			

2. KEY BOARD UNIT EXPLODED VIEW

•Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
● 1	Key Board Unit	CWM2695	6	Bush	CNV1859
2	Lens	CNV2688	7	Bush	CNV1859
3	Holder	CNV2684	8	Plug	CKS1663
4	Lamp	CEL1208	9	Holder	CNV2685
5	Lamp	CEL1207	10	Lens	CNV2686
			11	LCD	CAW1125
			12	Insulator	CNM3051
			13	Holder	CNC3576
			14	Spacer	CNM1642
			15	Lamp	CEL1228



PRE.OUT(2) P.C. BOARD

		Q808	Q806	Q802	Q801
Q	Q800	Q807			Q805

Q Q853 Q854 Q855 Q851
 Q850 Q855 Q852

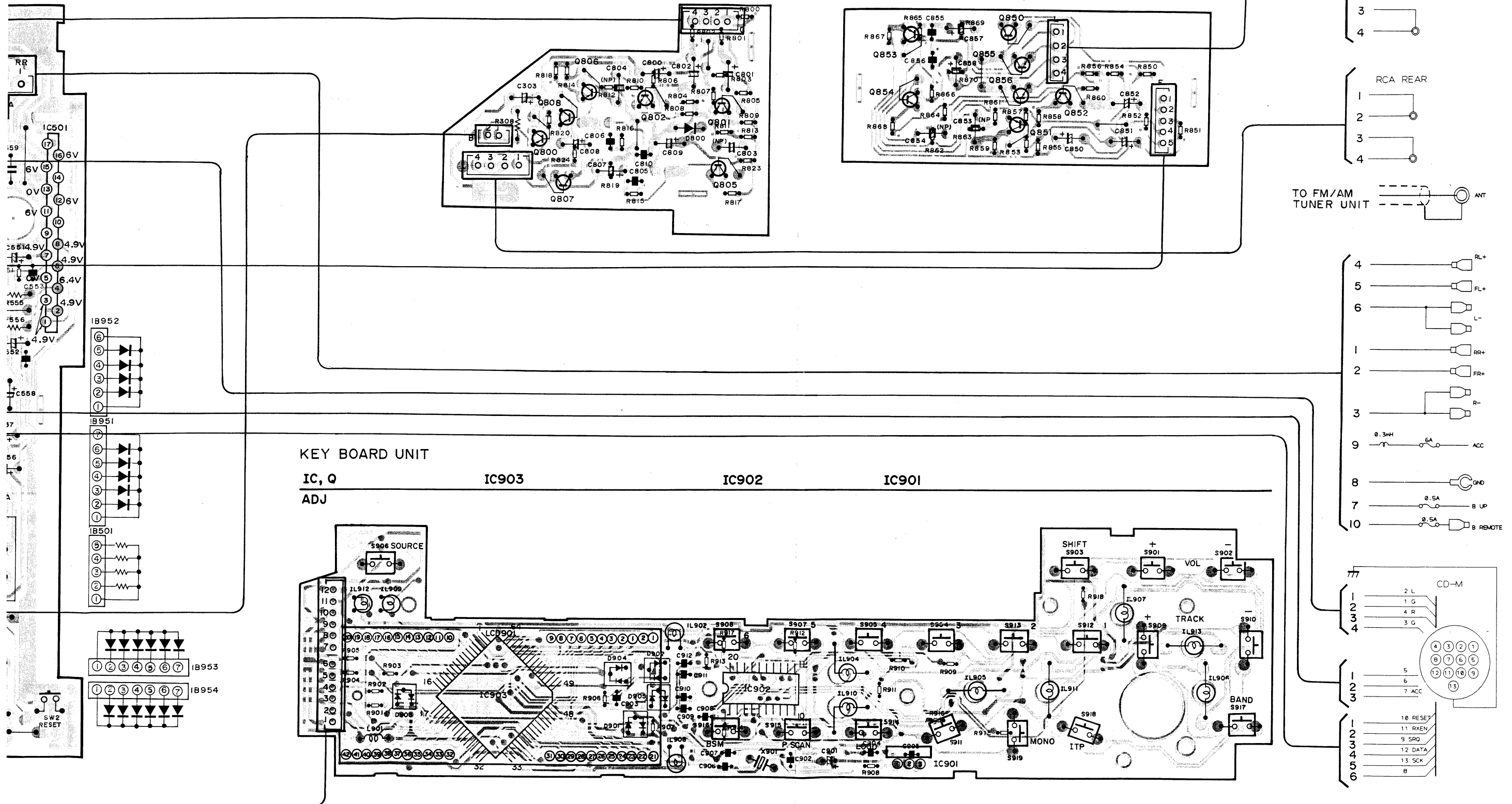


Fig. 3

4. SCHEMATIC CIRCUIT DIAGRAM

TO TUNER AMP P.C. BOARD

TUNER AMP P.C. BOARD

FM/AM TUNER UNIT

CWE1225

TEST TAPE 315Hz 0dB P.C. BOARD (B)

REGULATOR

SYSTEM CONTROL

IC502

PD4343B

SYS PW SWITCH

ACC SENSE

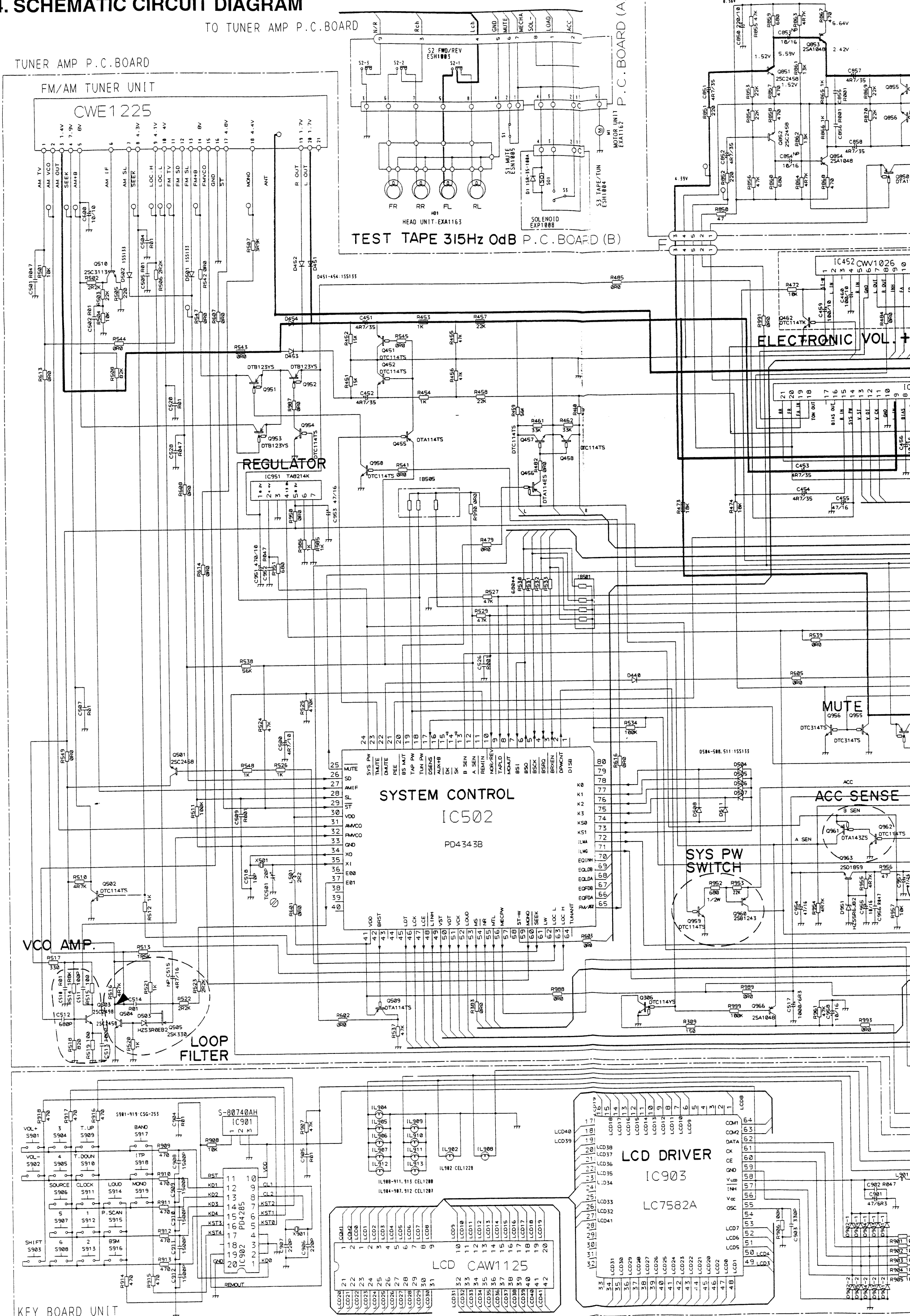
LCD DRIVER

IC903

LC7582A

LCD CAW1125

KEY BOARD UNIT



C. BOARD

PRE OUT (1) P.C. BOARD

NOTE:

□ Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2-2R2
0.022-R022

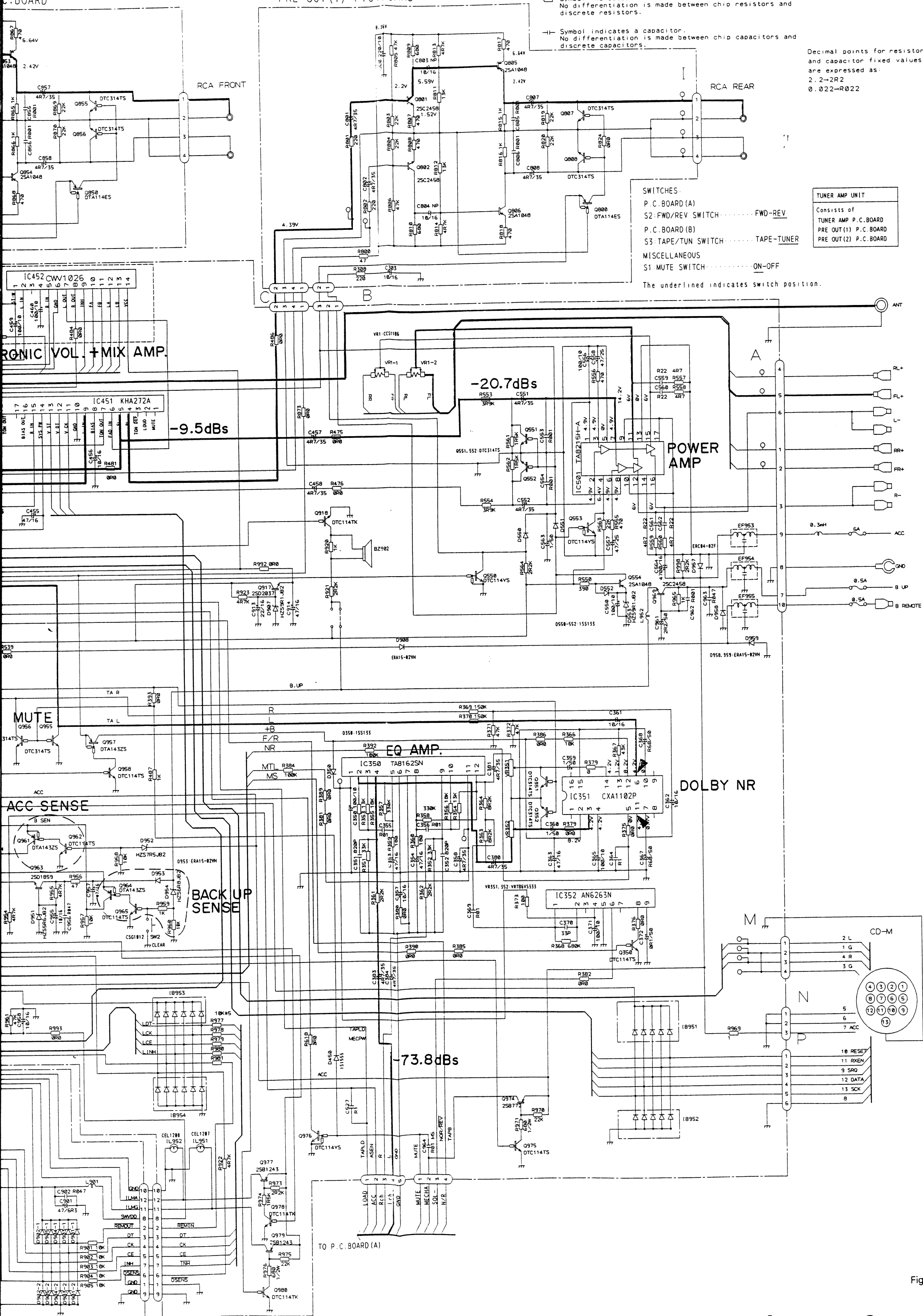


Fig. 4

5. PACKING METHOD

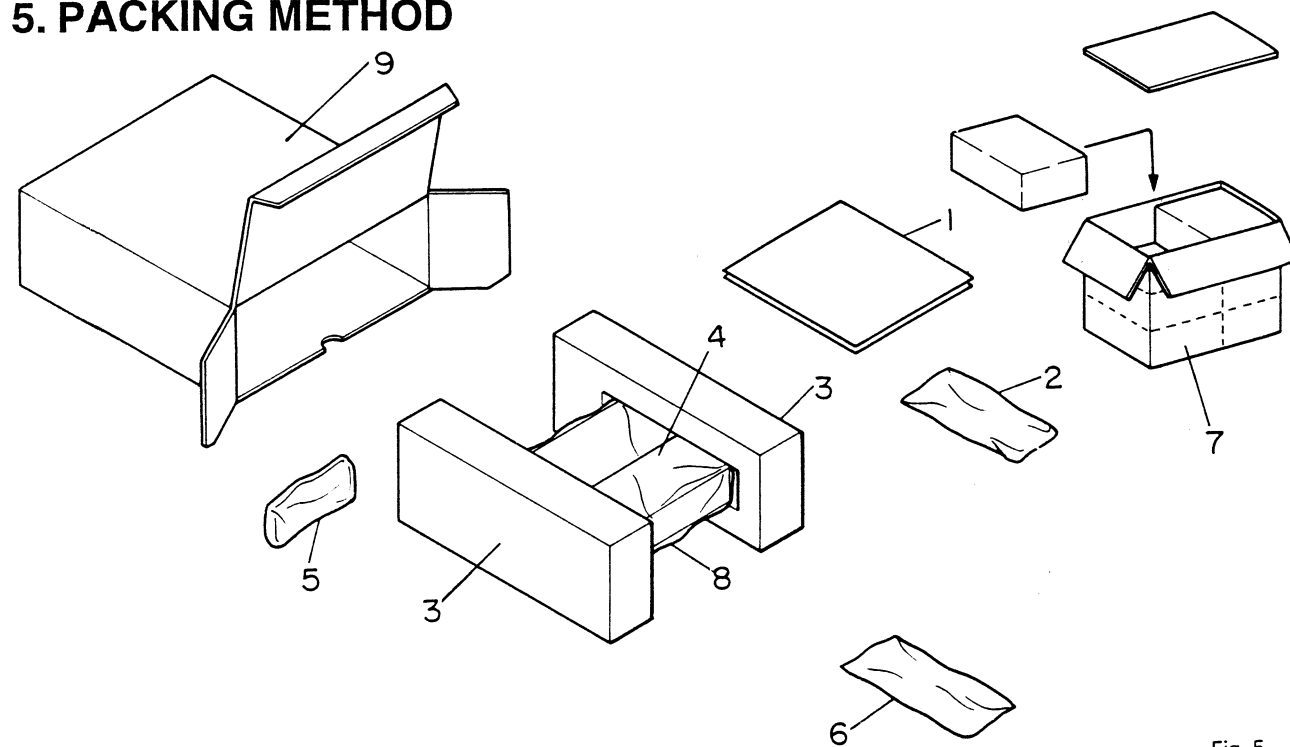


Fig. 5

•Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1-1	Owner's Manual (English, French)	CRD1482	6-3	Cord	CDE1289
* 1-2	Card	ARY1408	6-4	Handle(×2)	CNC3664
1-3	Caution Card	CRP1095	6-5	Strap	CNF-111
2	Cord	CDE3181	6-6	Bush	CNV1009
3	Styrofoam	CHP1405	6-7	Nut(×2)	NF50FMC
* 4	Holder	CNC3342	* 7	Contain Box	CHL1992
5	Case	CNS2269	8	Cover	CEG1092
6	Accessory Assy	CEA1633	9	Carton	CHG1992
6-1	Screw(×1)	CBA-102			
6-2	Screw(×1)	CBA1002			

* :Non spare part

6. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S □□□J, RS1/10S □□□J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Unit Number :
Unit Name : Tuner Amp Unit

Tuner Amp Unit
Consists of
• Tuner Amp P.C. Board
• Pre Out(1) P.C. Board
• Pre Out(2) P.C. Board

MISCELLANEOUS

==== Circuit Symbol & No. ===	Part Name	Part No.
IC 350	TA8162SN	
IC 351	CXA1102P	
IC 352	AN6263N	
IC 451	KHA272A	
IC 452	CWV1026	

==== Circuit Symbol & No. ===	Part Name	Part No.
IC 501	TA8215H-A	
IC 502	PD4343B	
IC 951	TA8214K	
Q 306	DTC114YS	
Q 350 457 458 950 958 959 962 975	DTC114TS	
Q 351 352 551 552 807 808	DTC134TS	
Q 451 452	DTC114TS	
Q 455 509	DTA114TS	
Q 456 800	DTA114ES	
Q 462	DTC114TK	
	Chip Transistor	
Q 501 504 969	2SC2458	
Q 502	DTC114TS	
Q 503	2SC2498	
Q 505	2SK330	
Q 510	2SC3113	
Q 550 553 976	DTC114YS	
Q 554 805 806 966	2SA1048	
Q 801 802	2SC2458	
Q 850	DTA114ES	
Q 851 852	2SC2458	
Q 853 854	2SA1048	
Q 855 856	DTC134TS	
Q 917	2SD2037	
Q 918 978 980	DTC114TK	
Q 951 952 953	DTB123YS	
	Chip Transistor	
Q 954	DTC114TS	
Q 955 956	DTC134TS	
Q 957	DTA143ZS	
Q 960 977 979	2SB1243	
Q 961 964	DTA143ZS	
Q 963	2SD1859	
Q 965	DTC114TS	
Q 974	2SB772	
D 350 440 504 505 506 507 508	1SS133	
D 450	1S1555	
D 451 452 453 454 501 502 550 551 552	1SS133	
D 503	HZS3R0EB2	
D 511	1SS133	
D 553	HZS9R1JB2	
D 907	HZS9R1JB2	
D 908	ERA15-02VH	
D 951	HZS5R6JB2	
D 952	HZS7R5JB2	
D 953 958 959	ERA15-02VH	
D 954	HZS6R8JB2	
D 957	ERC04-02F	
L 501	LAU2R2M	
L 952	LAU330K	
IB 501	CWW1302	
IB 505	CWW1240	
IB 951	CWW1301	
IB 952	CWW1128	
IB 953	CWW1292	
IB 954	CWW1291	
X 501	CSS1011	
	Crystal Resonator	
IL 952	Lamp(Orange)	CEL1208
VR 351 352	Semi-fixed 33kΩ (B)	VRTB6VS333
VR 1	Volume (Fader)	CCS1186
TC 501	Trimmer	CCG-070
IL 951	Lamp (Green)	CEL1207
SW 2	Switch (Clear)	CSG1012
EF 953 954 955	EMI Filter	CCG1003
BZ 902	Buzzer	CPV1013

RESISTORS

==== Circuit Symbol & No. ===	Part Name	Part No.
R 308	RD1/4PS221JL	
R 309	RD1/4PS151JL	
R 351 352	RS1/10S333J	
R 353 354	RS1/10S133J	
R 355 356	RS1/10S183J	
R 357 358	RS1/10S334J	
R 359 360	RS1/10S181J	
R 361 362 502 522	RS1/10S222J	
R 363 364	RS1/10S822J	
R 366 501 504 957 958	RS1/10S103J	
R 367	RS1/10S433J	
R 368	RS1/10S684J	
R 369	RD1/4PS154JL	
R 370	RS1/10S154J	
R 371 372	RS1/10S473J	
R 373 515 519	RS1/10S101J	
R 375	RS1/10SOR0J	
R 376 543 544 545 546 549 601 602	RS1/10SOR0J	
R 379	RS1/10SOR0J	
R 380 381 873	RS1/10SOR0J	
R 382 383 614 616 988 989 990	RS1/8SOR0J	
R 384	RS1/8S104J	
R 385 386 486 618	RS1/8SOR0J	
R 389 824 993	RS1/8SOR0J	
R 390	RS1/8SOR0J	
R 392	RS1/10S104J	
R 393	RS1/8SOR0J	
R 451 452	RD1/4PS153JL	
R 453 454	RS1/10S102J	
R 455 456 524 527 529 805 806	RS1/10S473J	
R 457	RS1/8S223J	
R 458	RD1/4PM223J	
R 459 460	RS1/10S563J	
R 461 462	RS1/10S333J	
R 472	RS1/10S103J	
R 473 474	RS1/10S183J	
R 475 476 541 542 547	RS1/10SOR0J	
R 479 482 605 987	RS1/10SOR0J	
R 484 992	RS1/8SOR0J	
R 485 607 608 613	RS1/8SOR0J	
R 487 520 521 815 816 920 985 986	RS1/10S102J	
R 503 563 819 820 970	RS1/10S223J	
R 505 801 802	RS1/10S221J	
R 506	RD1/4PS222JL	
R 507	RD1/4PS392JL	
R 508	RS1/10S823J	
R 510	RD1/4PS472JL	
R 511 534	RS1/8S104J	
R 512	RD1/4PM102J	
R 513	RS1/10S152J	
R 514	RS1/10S182J	
R 516	RS1/10S472J	
R 517	RS1/10S331J	
R 518	RS1/10S821J	
R 523 564 921 973	RS1/10S222J	
R 525	RS1/10S474J	
R 526	RD1/4PM102J	
R 530 531	RS1/10S681J	
R 532 533	RS1/8S681J	
R 537	RS1/10S473J	
R 538	RS1/10S563J	
R 539	RS1/10SOR0J	
R 548	RS1/10S102J	
R 550	RS1/10S391J	
R 553	RD1/4PS392JL	

CAPACITORS

==== Circuit Symbol & No. ===	Part Name	Part No.
R 554		
R 555 556		
R 557 558 559		
R 561 562		
R 603		
R 800		
R 803 804		
R 807 808 810		
R 809 810		
R 811 812		
R 813 814		
R 850		
R 851 852		
R 853 854 856		
R 855 856		
R 857 858 860		
R 859 860		
R 861 862		
R 863 864		
R 865 866		
R 922		
R 923		
R 950		
R 951		
R 952 971 972		
R 953		
R 954		
R 955		
R 956		
R 959 965		
R 960 977 978		
R 961		
R 969		
R 974		
R 975		
R 991		
R 998		
R 999		
	CAPACITORS	
	==== Circuit Symbol & No. ===	
C 303		
C 350 371		
C 351 352		
C 353 354 355		
C 355 356 357		
C 357 361 362		
C 358 380 381		
C 359 360		
C 364		
C 365		
C 367 368		
C 369 964		
C 370		
C 372		
C 383 384		
C 455 953		
C 456		
C 459 460		
C 500		
C 501		
C 502 504 505		
C 509 526		
C 511		
C 512		
C 513		



Part Name	Part No.
-----------	----------

Service Manual

PIONEER
The Art of Entertainment

• KEH-M7300/EW



ORDER NO.
CRT1382

MULTI-CD CONTROL FM/MW/LW TUNER DECK AMPLIFIER

KEH-M7300

EW

KEH-M7300SDK

WG

MULTI-CD CONTROL FM/AM TUNER DECK AMPLIFIER

KEH-M7200

US

KEH-M7250

CA, ES

KEH-M550

US

Note:

- See the separate manual CX-197 (CRT1328) for the cassette mechanism description.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

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ES MAY 1991 printed in Japan

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SAFETY INFORMATION (US MODEL)

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

SPECIFICATIONS (KEH-M7300/EW)

General

Power source	14.4 V DC (10.8 – 15.6 V allowable)
Grounding system	Negative type
Max. current consumption	7.5 A
Dimensions (chassis)	180 (W) x 50 (H) x 150 (D) mm
(front face)	188 (W) x 58 (H) x 19 (D) mm
Weight	1.6 kg

Amplifier

Maximum power output	25 W x 2/15 W x 4 (EIAJ)
Continuous power output	11 W x 2 (1% dist. at 1 kHz)
Load impedance	4 Ω (4 – 8 Ω allowable)
Max. output level/output impedance (preout)	500 mV/1 k Ω
Tone controls (bass)	± 10 dB (100 Hz)
(treble)	± 10 dB (10 kHz)
Loudness contour	+12 dB (100 Hz), +7 dB (10 kHz)
	(Volume: –30 dB)

Tape player

Tape	Compact cassette tape (C-30 – C-90)
Tape speed	4.76 cm/sec. (+0.14 cm/sec., –0.05 cm/sec.)
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow & flutter	0.13 % (WRMS)
Frequency response	Metal: 40 – 17,000 Hz (± 3 dB)
Stereo separation	45 dB

Signal-to-noise ratio

..... Metal: Dolby B NR IN: 63 dB (IEC-A network)
..... Dolby NR OUT: 55 dB (IEC-A network)

FM tuner

Frequency range	87.5 – 108 MHz
Usable sensitivity	11 dBf (1.0 μ V/75 Ω , mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μ V/75 Ω , mono)
Signal-to-noise-ratio	70 dB (IEC-A network)
Distortion	0.3 % (at 65 dBf, 1 kHz, stereo)
Frequency response	30 – 15,000 Hz (± 3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range	531 – 1,602 kHz
Usable sensitivity	18 μ V (25 dB) (S/N: 20 dB)
Selectivity	50 dB (± 9 kHz)

LW tuner

Frequency range	153 – 281 kHz
Usable sensitivity	30 μ V (30 dB) (S/N: 20 dB)
Selectivity	50 dB (± 9 kHz)

Note:

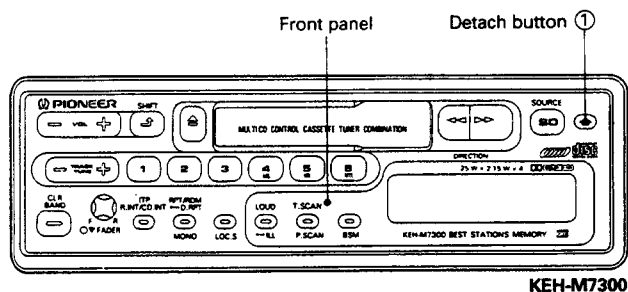
Specifications and the design are subject to possible modification without notice due to improvements.

1. USING THE REMOVABLE FRONT PANEL

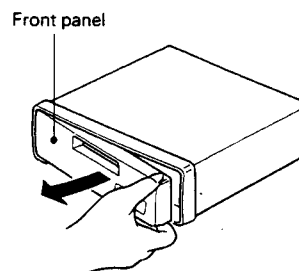
The front panel of this unit can be removed to prevent theft.

Detaching the Front Panel

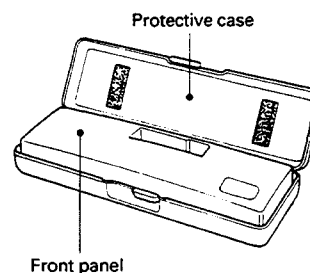
1. Press button ①, and the right-hand side of the panel will eject.



2. To remove the front panel, pull its right-hand side toward you.



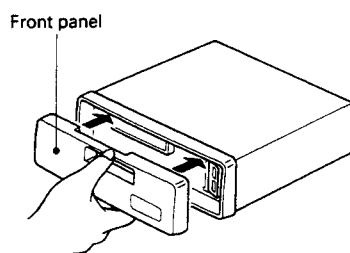
- Take care not to put pressure on the display or drop the front panel.
3. Enclose for safekeeping the front panel that is removed in the supplied protective case.



Replacing the Front Panel

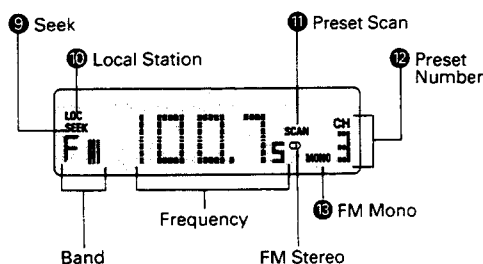
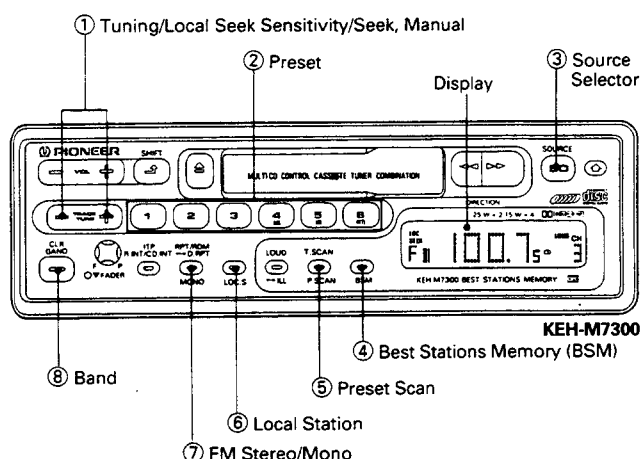
Push the front panel into the main body.

- When replacing the front panel, do not put pressure on the display or control buttons.



- Note that if the front panel is not attached correctly, pushing button ① may not release the panel, and the other control buttons may not function.

3. USING THE RADIO



1 Press button ③ to switch the radio power on.

2 Press button ⑧ to select a band.

F I → F II → F III → M/L
(FM1) (FM2) (FM3) (MW/LW)

Use Button ① to switch between MW (531–1,602 kHz) and LW (153–281 kHz).

3 Use seek tuning to tune in a frequency.

Confirm that the SEEK indicator ⑨ is shown on the display (if not, press the (+) and (–) sides of button ① at the same time). Press the (+) side of button ① to automatically tune in the next higher receivable frequency, and the (–) side for a lower frequency.

4 Adjust volume and tone

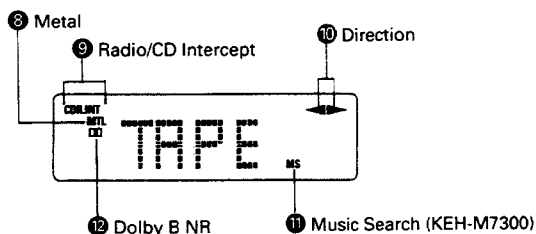
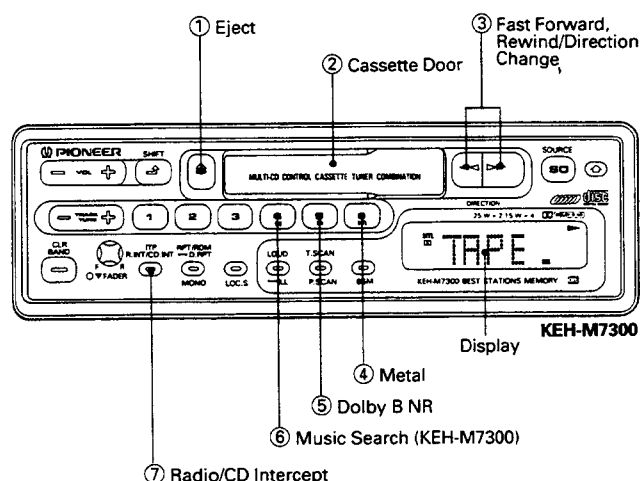
5 Assign the tuned frequency to one of the buttons in Bank ② (preset memory).

Press and hold down one of the button in Bank ② for at least two seconds. The frequency is assigned to the selected button when the preset number ⑫ stops flashing on the display. Up to 18 FM stations (6 each for FM1, FM2 and FM3), and six MW/LW stations can be assigned to the preset memory buttons in Bank ②.

6 Once a frequency is assigned to a button in Bank ②, you just need to press that button to tune it in.

This also causes the number of the button pressed to appear at position ⑫ on the display.

4. USING THE TAPE DECK



1 Insert the cassette tape into the slot ②, and power will be turned on and the tape begin being played back.

At this time, the tape running direction indicator ⑩ will light up.

2 Adjust volume and tone

3 To eject the cassette tape, press the button ①.

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.

- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.

Changing Program

Push the fast forward and rewind buttons ③ together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

Using Fast Forward and Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons ③ can be regard as fast forward/rewind buttons.

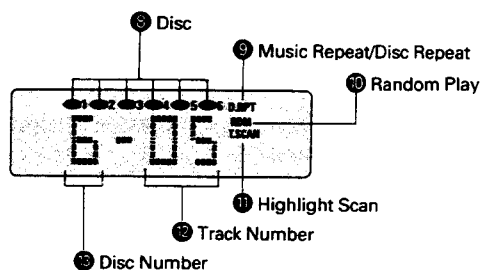
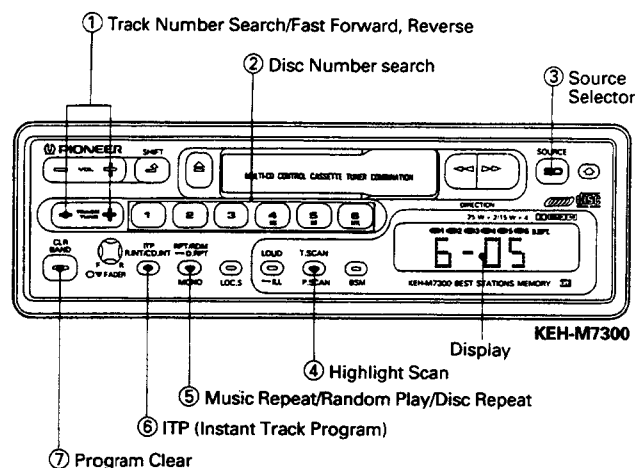
For fast forward, press the high-speed tape transport button ③ that corresponds to the direction that is shown by the direction indicator ⑩.

When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button ③ that is opposite that of the direction shown by the direction indicator ⑩. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button ③.

5. PLAYING COMPACT DISCS



1 Press button ③ to change the display to the Multi-Play CD player mode and to begin disc play.

Each press of button ③ changes the mode as follows:
Multi-Play CD player — Tape — tuner — OFF

2 Use the Disc Number Search function to select a disc.

Select the desired disc by pressing one of the buttons in Bank ②. The number of the disc selected appears at position ⑬ on the display.

- Display ⑧ indicates whether the magazine is loaded or empty.
- If the number at position ⑬ on the display does not change when you press a button in Bank ②, it means that there is no disc loaded in that tray.

3 Use Track Number search to select a track.

Confirm that Track Number is shown at Position ⑫ on the display.

If not, press the (+) and (–) sides of button ① at the same time. Press the (+) side of button ① to increase the number at Position ⑫, or the (–) side to decrease the number. Holding either side of button ① down changes the track number at high speed.

4 Adjust volume and tone

5 To stop disc play, press button ③.

At another press, the normal play resumes from about where it stopped.

- If you stopped operating a Multi-Play CD Player CDX-M100 in the middle of music and then restarted, the player resumes playing from the very beginning of the selection with which you stopped.

6. BLOCK DIAGRAM

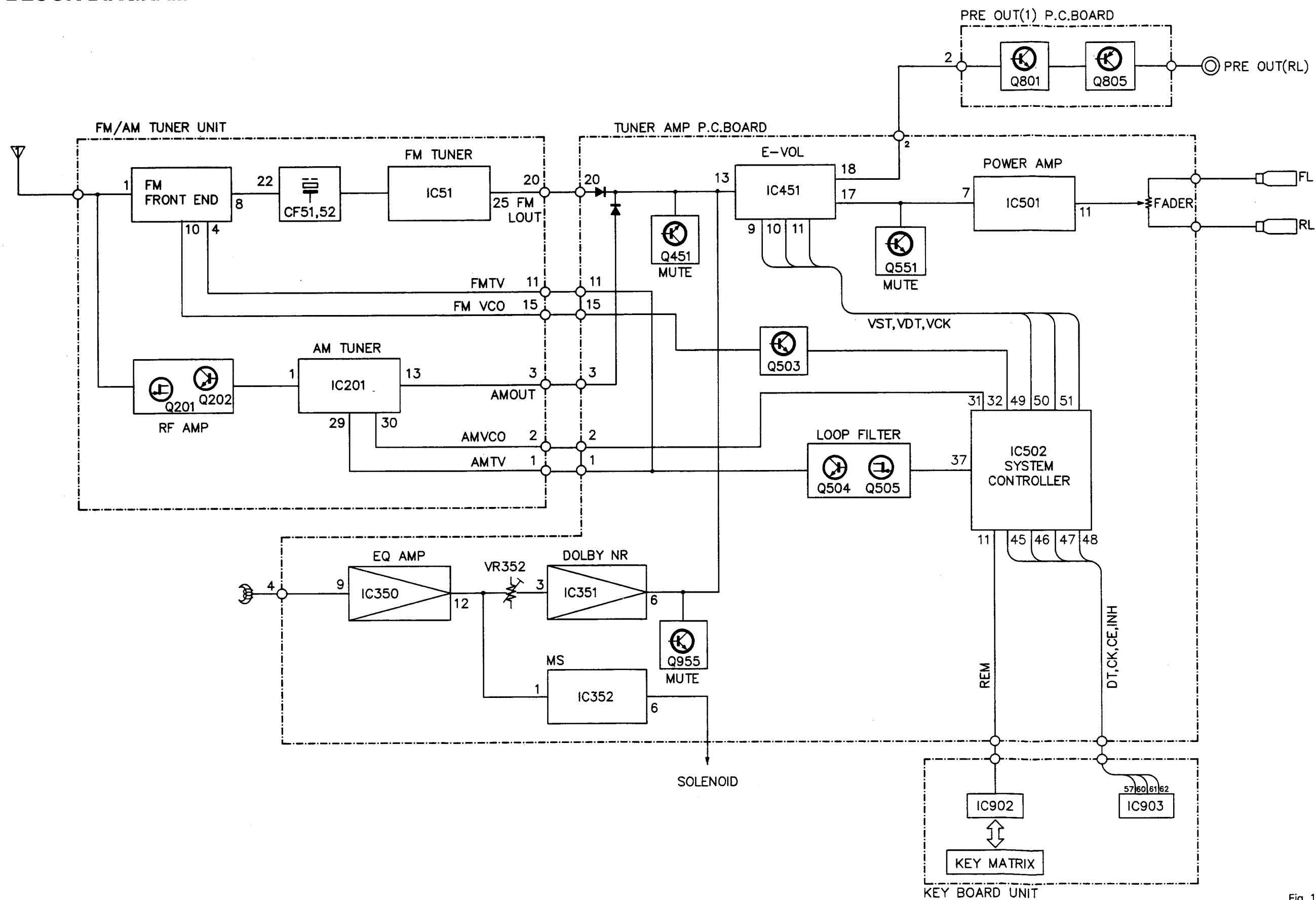


Fig. 1

7. DISASSEMBLY

- Removing the case
 - 1. Insert and turn a screwdriver at locations indicated by arrows to remove the case.
-
- Removing the grille assy
 - 1. Press the detach button, and then pull grille assy.

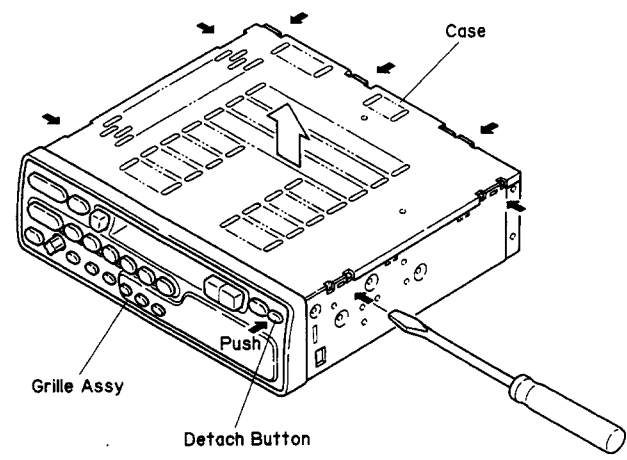


Fig. 2

- Removing the cassette mechanism assy
 - 1. Remove the four screws.
 - 2. Disconnect the connector.
 - 3. Remove the cassette mechanism assy.
-
- Removing the panel assy
 - 1. Remove the two screws.
 - 2. Disconnect the connector.
 - 3. Remove the panel assy.

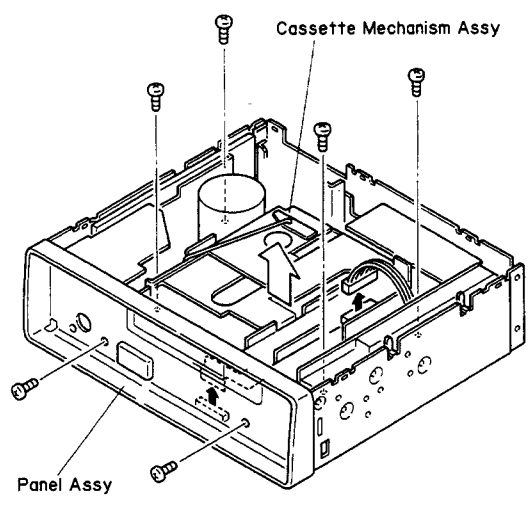


Fig. 3

- Removing the chassis unit
- 1. Remove the five screws.
- 2. Remove the antenna plug.
- 3. Remove the chassis unit.

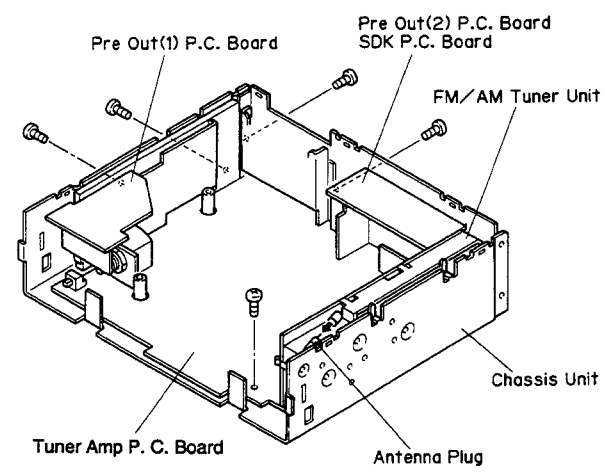


Fig. 4

8. ADJUSTMENT

8. 1 TEST MODE

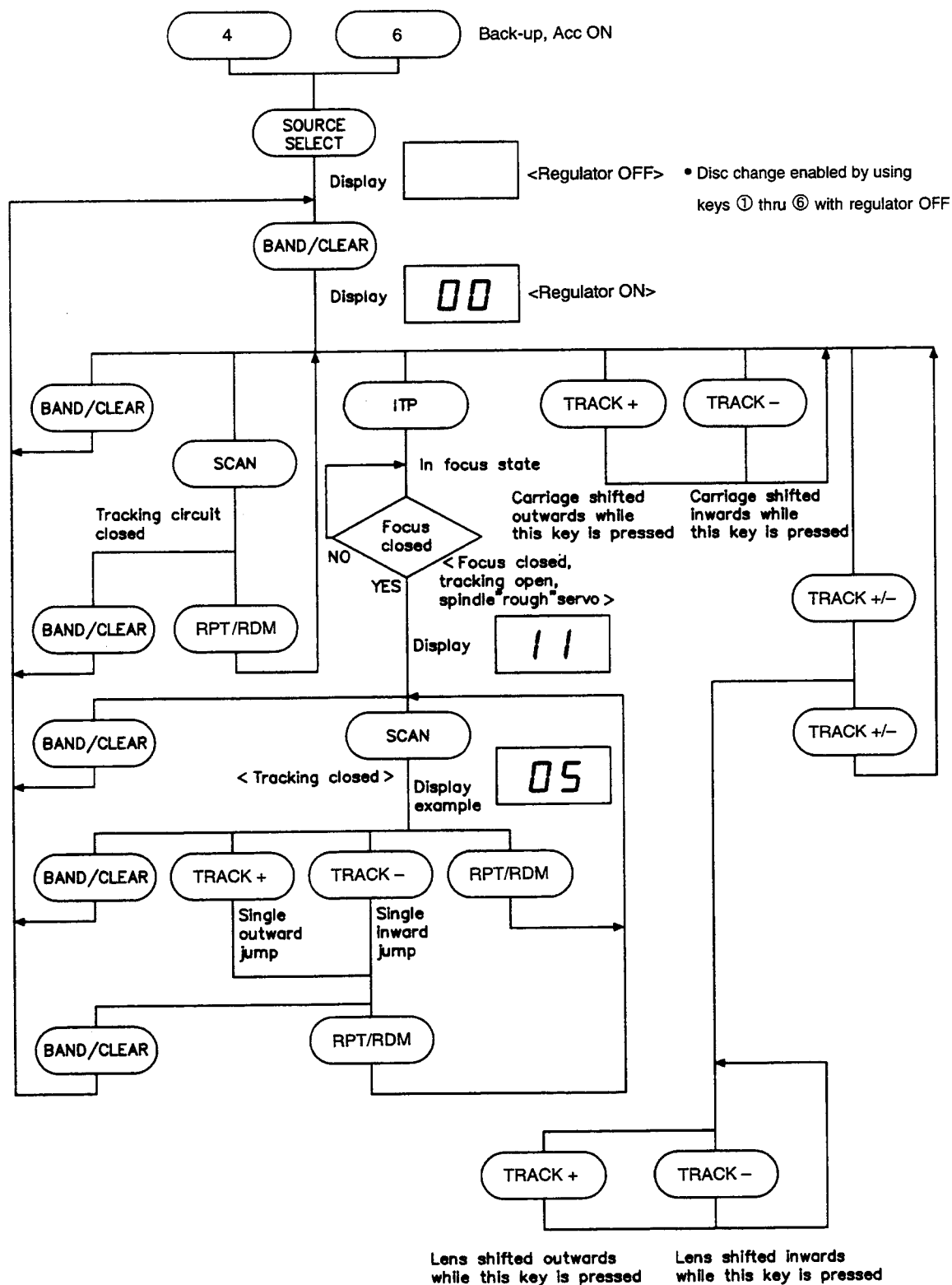
Test mode is mainly used in adjustment of CD multi-players.

- Switching to test mode
- While pressing the 4,6 keys together, switch the back-up and the ACC ON.
- Canceling test mode
- While pressing the CD multi-player clear button, switch the this unit back-up and ACC OFF.
- Key functions during test mode
- The CD multi-player, deck, and tuner are selected by the SOURCE button.
- a) CD multi-player

key	Function
BAND/CLEAR	Regulator ON/OFF
TRACK +	FWD kick
TRACK -	REV kick
SCAN	Tracking close
RPT/RDM	Tracking open
ITP	Focus close
TRACK +/-	Carriage/tracking switching

- b) Deck and tuner
- No corresponding function. Normal operation executed.

- **Flow Chart**



8. 2 TUNER ADJUSTMENT

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

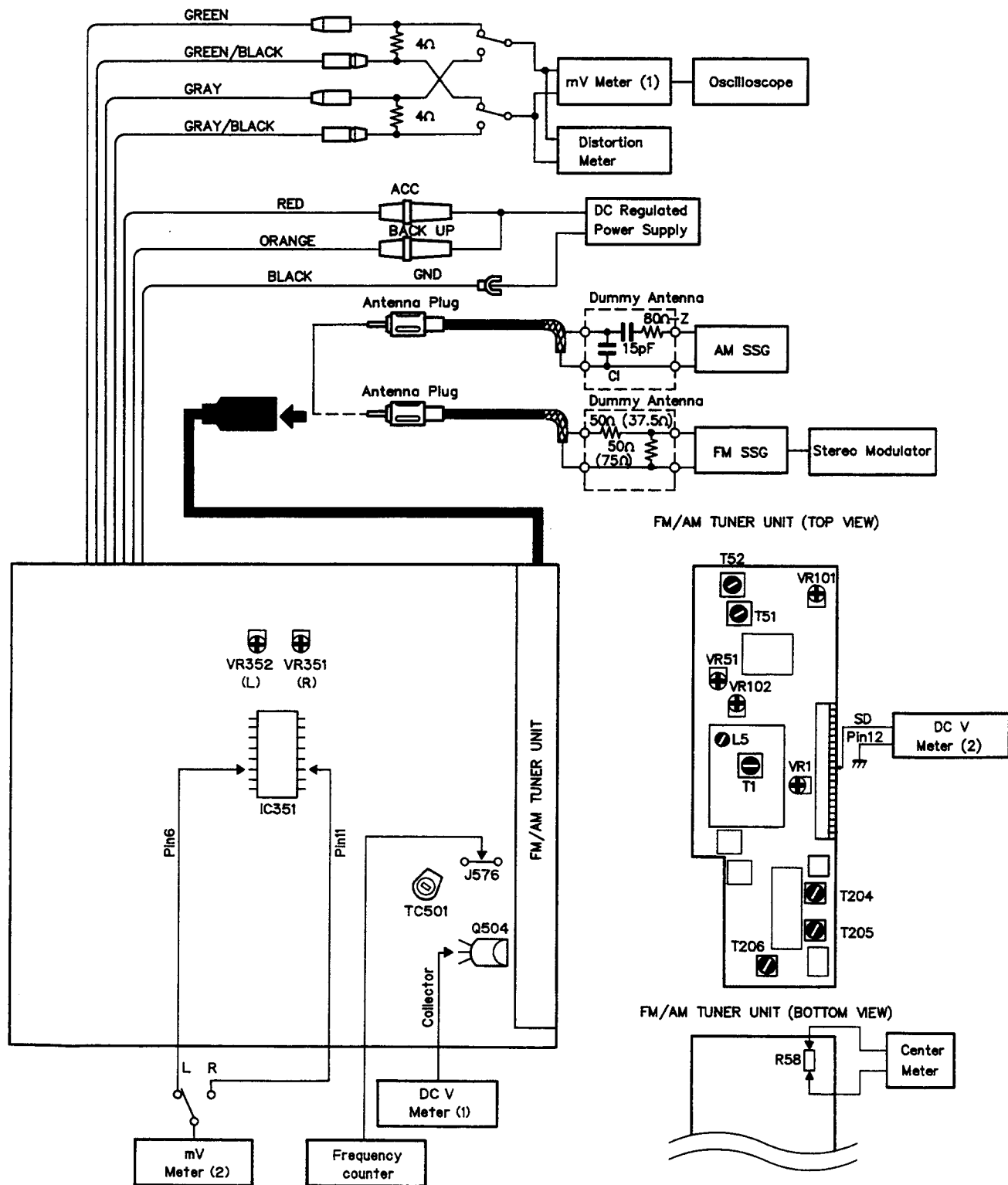


Fig. 5

FM ADJUSTMENT ※ Stereo MOD.: 1kHz, L+R=90% , Pilot=10%
 *(): EW, WG, ES Model

	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dB μ V)			
IF	1	98.1	60	98.1	T51	Center Meter:0
	2	98.1	60	98.1	T52	Distortion Meter:Minimum
	3	Repeat No.1-2 alternately so that the center meter indicates the 0 output and distortion meter indicates minimum output.				
Front End	1			107.9 *(108)	L5	DC V Meter (1): 6.2 ± 0.2 V
	2			87.9 *(87.5)		Verify that DCV Meter (1) is more than 2.1 ± 0.6 V
	3	98.1	8	98.1	T1	Oscilloscope:Optimum Symmetry
	4	98.1※	60	98.1	T1	Distortion Meter:Minimum Rotate T1 less than $\pm 90^\circ$
Soft Mute	1	98.1	60	98.1		mV Meter (1):A dB
	2	98.1	9	98.1	VR102	mV Meter (1):A-3dB
ARC	1	98.1※	34	98.1	VR101	mV Meter (1):Separation 5dB
SD	1	98.1	15	98.1	VR51	DC V Meter (2):Approx. 5V
	2	98.1	14	98.1		Verify that DC V Meter (2) is approx. 0V.
	3	98.1	55	98.1	VR1	DC V Meter (2):Approx. 5V
		Connect collector of Q2 to GND. Connect DC regulated power supply to pin 3 of FM front end through resistor (330 Ω). Add 4.3v from DC regulated power supply.				
	4	98.1	54	98.1		Verify that DC V Meter (2) is approx. 0V.

AM ADJUSTMENT (US, CA, ES model)

* () : ES model when tuning step at 9kHz.

	No.	AM SSG(400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB μ V)			
Tuning Volt	1			1,710 *(1,602)	—	Verify that DC V Meter (1) is less than 6.5V.
	2			530 *(531)	—	Verify that DC V Meter (1) is more than 2.0V.
IF	1	1,000 (999)	15	1,000 (999)	T204, 205, 206	mV Meter (1) : Maximum

MW/LW ADJUSTMENT (EW, WG model)

	No.	AM SSG(400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB μ V)			
Tuning Volt	1	(MW MODE)		1,602	—	Verify that DC V Meter (1) is less than 6.5V.
	2	(LW MODE)		153	—	Verify that DC V Meter (1) is more than 2.0V.
IF	1	999	20—25	999	T204, 205, 206	mV Meter (1) : Maximum

DOLBY NR ADJUSTMENT

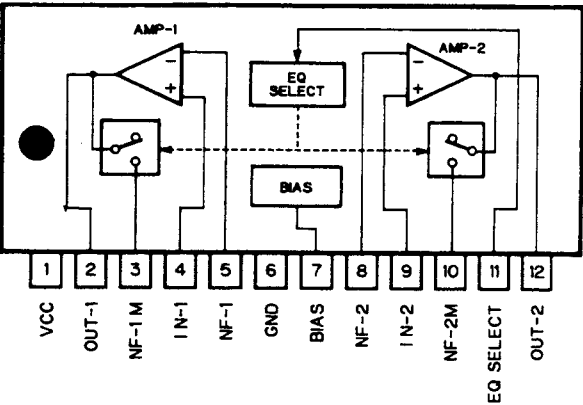
No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR352 (Lch) VR351 (Rch)	mV Meter (2) : -6dBs \pm 1dB (DOLBY NR Switch: OFF)

CLOCK ADJUSTMENT (US, CA, ES model)

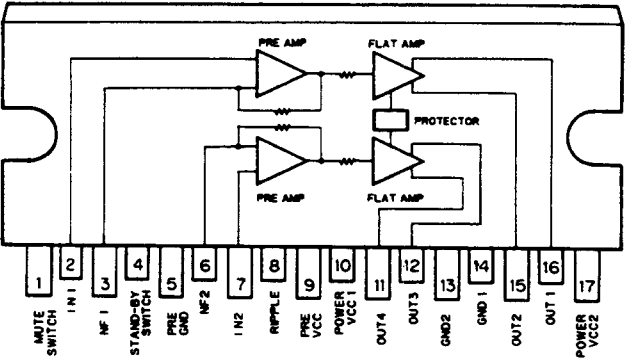
ES model when tuning step at 9kHz.

No.	Adjusting Point	Adjustment Method
1	AM Tuner Mode	Display: US, CA model 1,710kHz Display: ES model 1,602kHz
2	TC501	Frequency Counter: US, CA model 12,420kHz \pm 50Hz Frequency Counter: ES model 12,312kHz \pm 50Hz

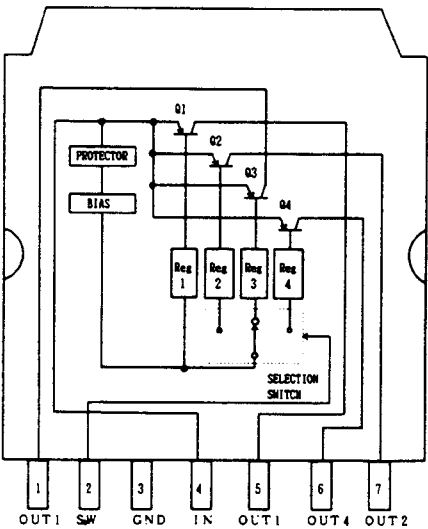
TA8162SN



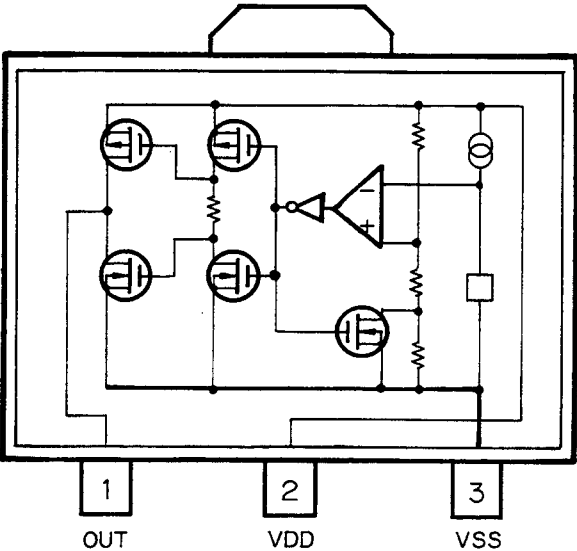
TA8215H-A



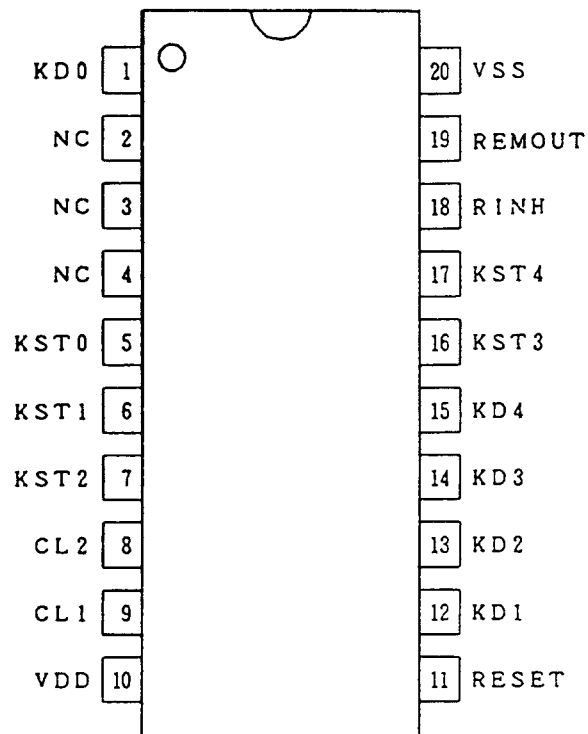
TA8214K



S-80740AH



PD4285



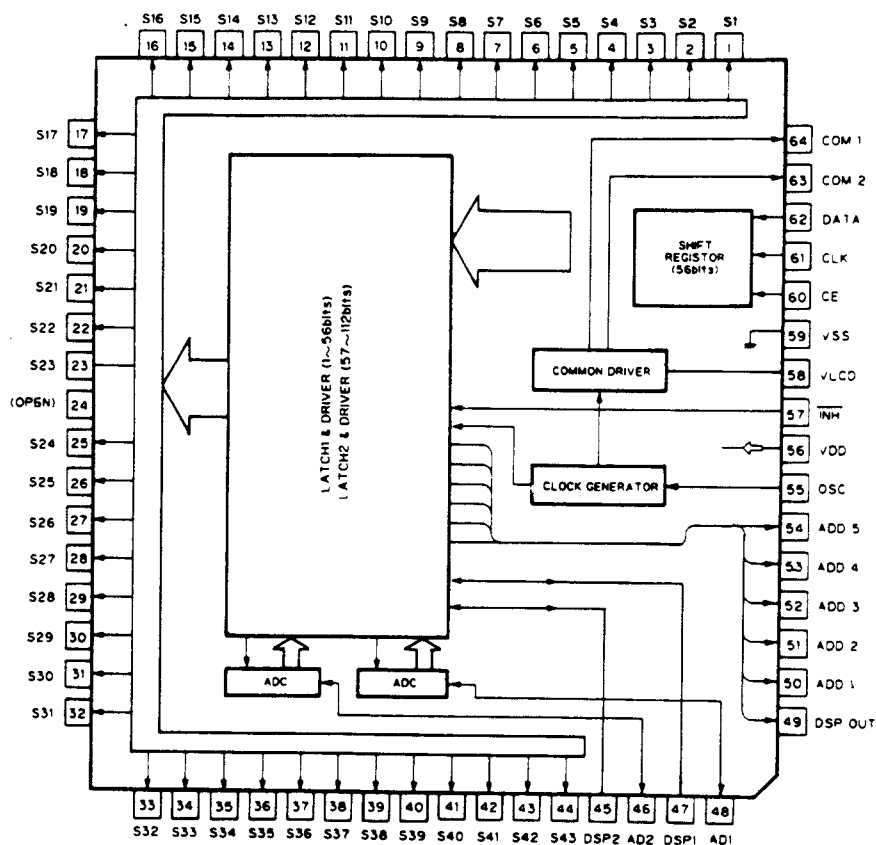
•Pin Functions (PD4285)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	KDD	INPUT		Key return input
2-4	NC			
5-7	KST0-KST2	OUTPUT	NM	Key strobe output
8	CL2			System clock generator connector pin
9	CL1			System clock generator connector pin
10	VDD			
11	RESET	INPUT		Reset input
12-15	KD1-KD4	INPUT		Key return input
16, 17	KST3, KST4	OUTPUT	NM	Key strobe output
18	RINH	OUTPUT	NM	Remote controller OFF output when key data is outputed
19	REMOUT	OUTPUT	NM	Remote controller data output
20	VSS			GND

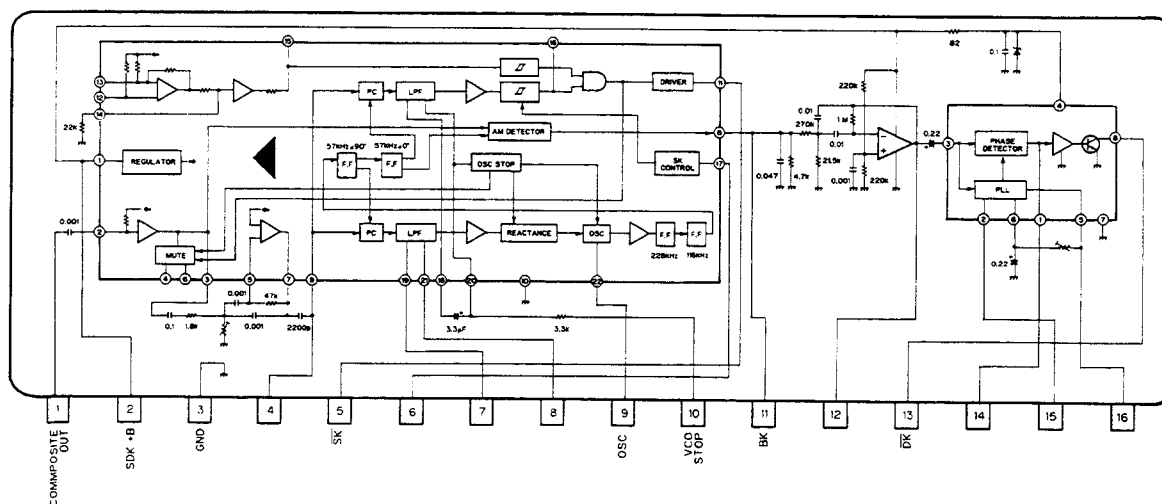
Output Format	Meaning
NM	Neutral resistivity N channel open drain

*IC's marked by * are MOS type.
Be careful in handling them because they are very
liable to be damaged by electrostatic induction.*

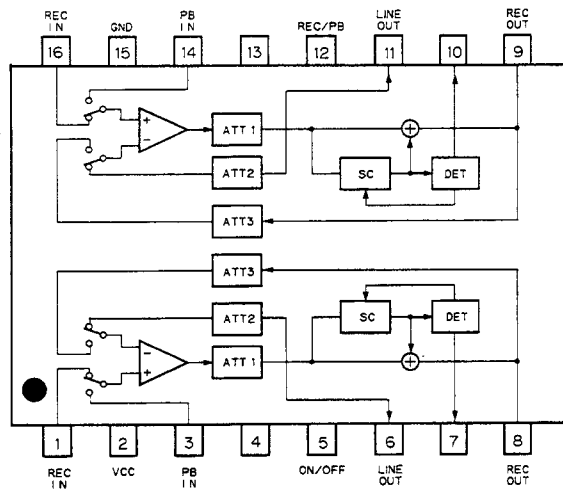
* LC7582A



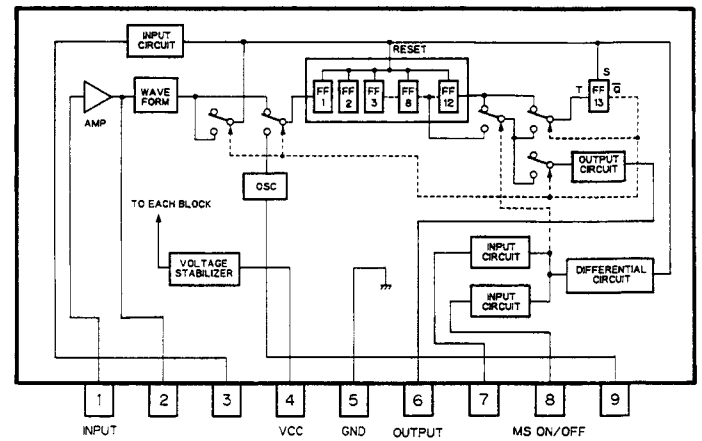
KHAC02



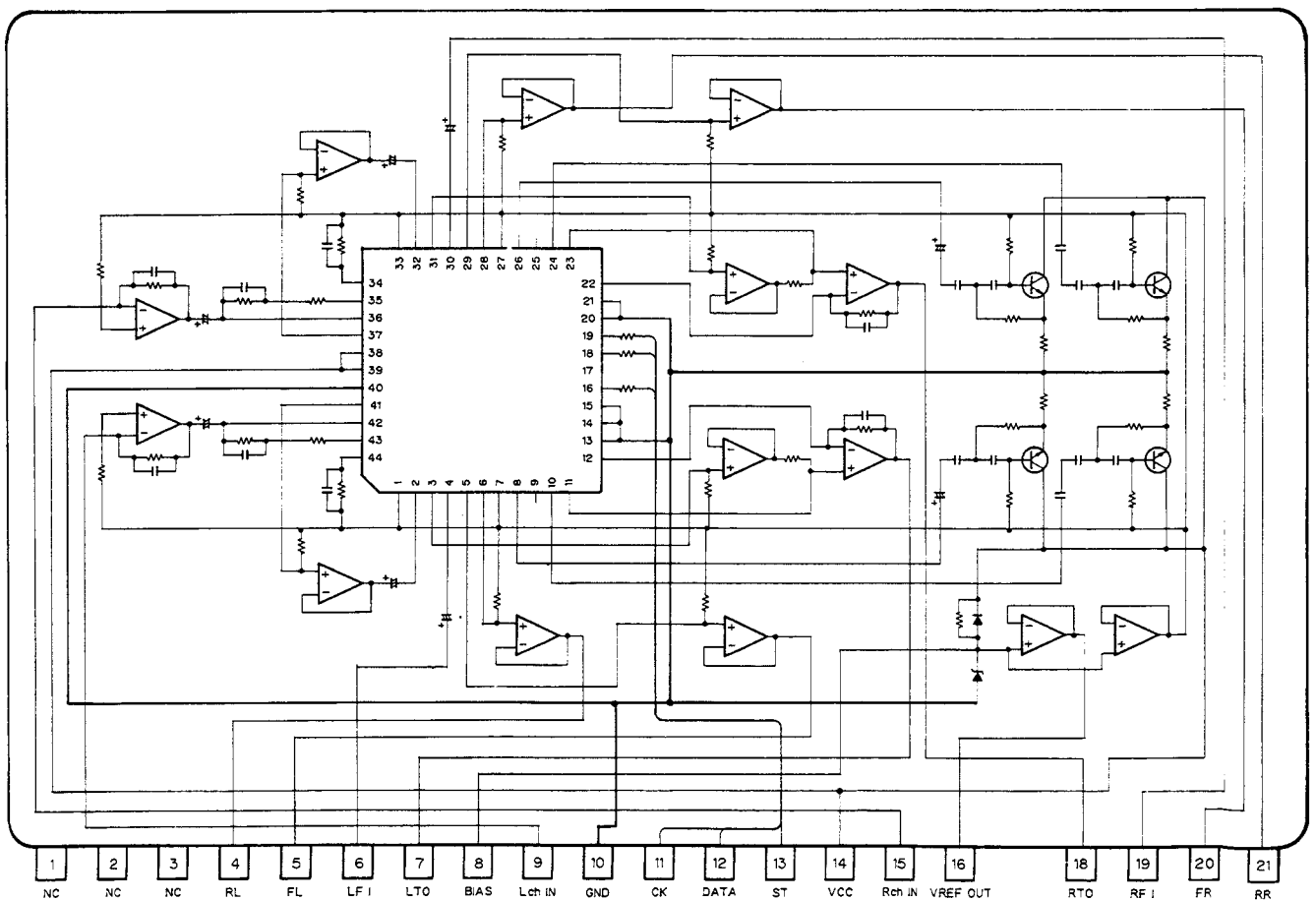
CXA1102P



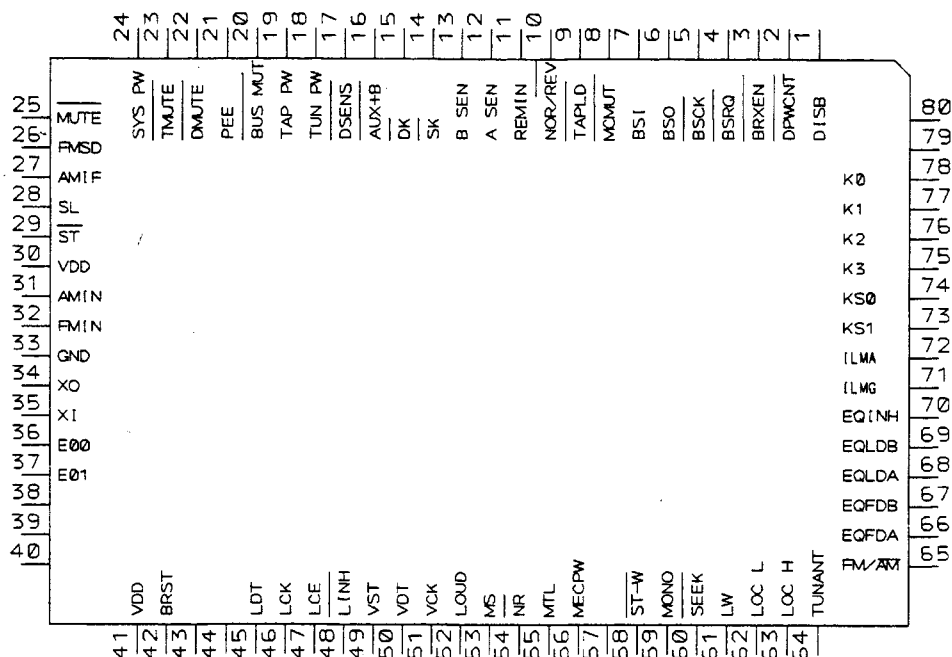
AN6263N



KHA272



* PD4302
PD4343A



•Pin Functions (PD4302, PD4343A)

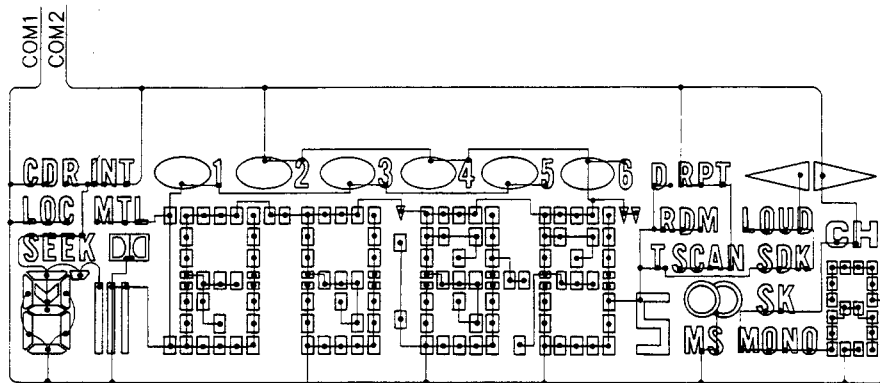
Pin No.	Pin Name	I/O	I/O Format	Function and Operation
1	DISB	Output	C	AUX control output
2	DPWCNT	Output	C	Front panel EJECT/REPLACE control signal output
3	BRXEN	Input/ Output		Bus reception enable line
4	BSRQ	Input/ Output		Data communications serial poll request
5	BSCK	Input/ Output		Bus serial clock input/output
6	BSO	Output		Bus serial data output
7	BSI	Input		Bus serial data input
8	MCMUT	Input		Mechanism mute request
9	TAPLD	Input		Cassette loading input
10	NOR/REV	Input		Deck FWD/REV sensor input
11	REMIN			Key input
12	ASENS			ACC sense input
13	BSENS			Back up sense input
14	SK	Input		SK signal input
15	DK	Input		DK signal input
16	AUX+B	Input		AUX input
17	DSSENS	Input		Front panel EJECT/REPLACE sensor input
18	TUNPW	Output	N	Tuner power supply control
19	TAPPW	Output	N	Deck power supply control
20	BUSMUT	Output	N	Bus mute output
21	PEE	Output	C	Beep tone output
22	DMUTE	Output	C	Deck mute output
23	TMUTE	Output	C	Tuner mute output

Pin No.	Pin Name	I/O	I/O Format	Function and Operation
24	SYSPW	Output	C	System power supply control
25	MUTE	Output	C	Mute
26	FMSD	Input		FM IF input
27	AMIF	Input		AM IF input
28	SL	Input		Signal level input
29	ST	Input		Stereo signal input
30	VDD			
31	AMIN	Input		AM VCO input
32	FMIN	Input		FM VCO input
33	GND			
34,35	Xout, in			
36,37	E00, 1			
38-40				Not used
41	VDD			
42	BRST	Output	C	Bus reset
43, 44				Not used
45	LDT	Output	C	LCD driver data output
46	LCK	Output	C	LCD driver clock
47	LCE	Output	C	LCD driver CE
48	LINH	Output	C	LCD driver INH
49	VST	Output	C	E-VOL strobe
50	VDI	Output	C	E-VOL data
51	VCK	Output	C	E-VOL clock
52	LOUD	Output	C	Loudness
53	MS	Output	C	Music signal input
54	NR	Output	C	Dolby NR ON/OFF output
55	MTL	Output	C	Deck METAL (70 μ S) output
56	MECPW	Output	C	Deck power supply control
57				Not used
58	ST-W	Output	C	Stereo wide
59	MONO	Output	C	Mono output
60	SEEK	Output	C	"L" output when SEEK
61	LW	Output	C	LW output
62	LOCL	Output	C	Local L
63	LOCH	Output	C	Local H
64	TUNANT	Output	C	Antenna output
65	FM/AM	Output	C	FM/AM switching
66	EQFDA	Output	C	1P, EQ Fc control
67	EQFDB	Output	C	1P, EQ Fc control
68	EQLDA	Output	C	1P, EQ level control
69	EQLDB	Output	C	1P, EQ level control
70	EQINH	Output	C	1P, EQ INH
71	ILLMG	Output	C	Green illumination light output
72	ILLMA	Output	C	Amber illumination light output
73	KS1	Output	C	Model sense output
74	KS0	Output	C	Model sense output
75-78	K3-K0	Input		Key matrix input
79,80				Not used

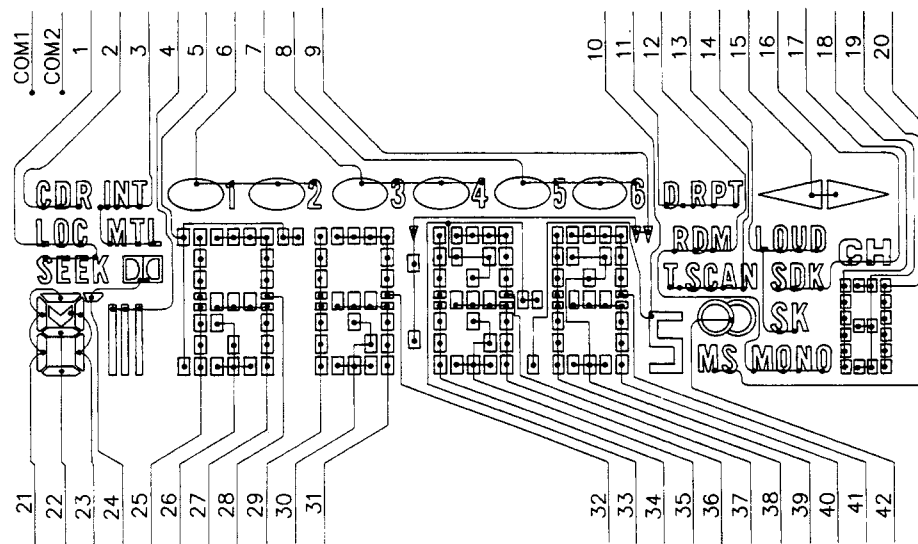
Output Format	Meaning
C	CMOS Output
N	N channel open drain

•LCD (CAW1124)

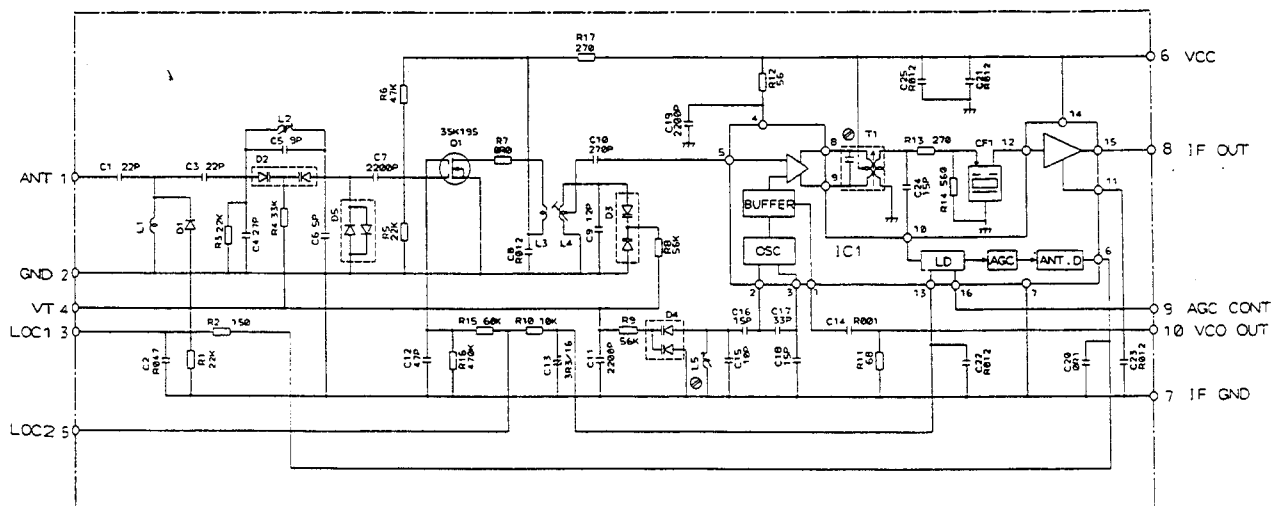
COMMON



SEGMENT



•FM FRONT END (CWB1035)



NOTE:

- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as
2.2-2R2
0.022-2e22

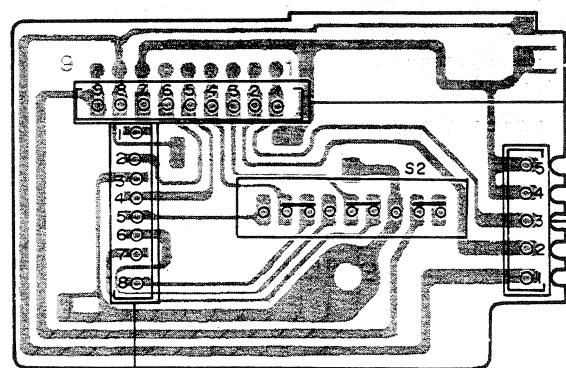
9. CONNECTION DIAGRAM (KEH-M7250/ES)

TUNER AMP P.C. BOARD

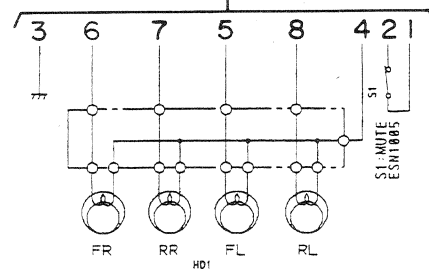
Q951	Q950	Q451	Q350	Q952	IC451	Q462	Q954	Q352	Q351	Q458	Q457	Q960	Q974	Q975	Q969	Q963	Q551	IC501					
Q953	Q452	IC352	IC350	IC351	Q456	Q976	Q460	Q459	Q959	Q962	Q961	Q965	Q964	Q550	Q552	Q553	Q554						
IC,Q	Q510	Q502	Q501	Q504	Q505	Q503	Q455	IC502	Q509	Q958	Q957	Q956	Q955	IC951	Q966	Q973	Q972	Q971	Q977	Q979	Q918	Q980	Q978
ADJ			TC501			VR351	VR352																

A

P.C. BOARD(A)

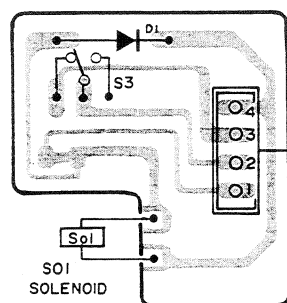


B

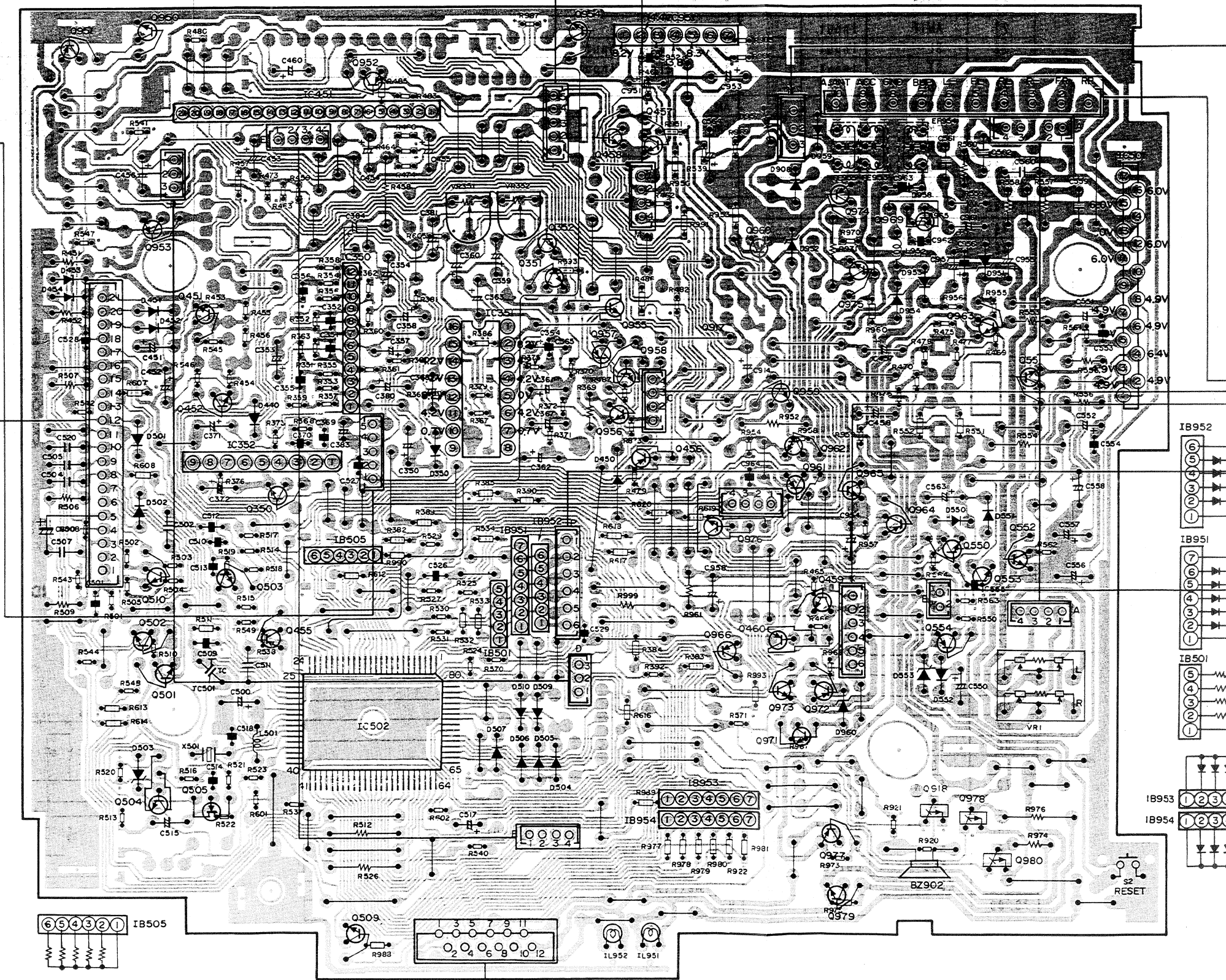


C

P.C. BOARD(B)



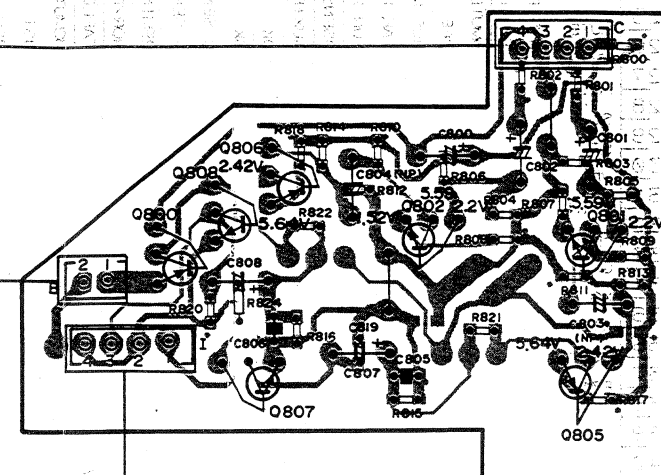
D

TO FM/AM
TUNER UNIT5
M
MOTOR UNIT
EXA1162

Q963 Q551 IC501
Q50 Q552 Q553 Q554
Q979 Q918 Q980 Q978

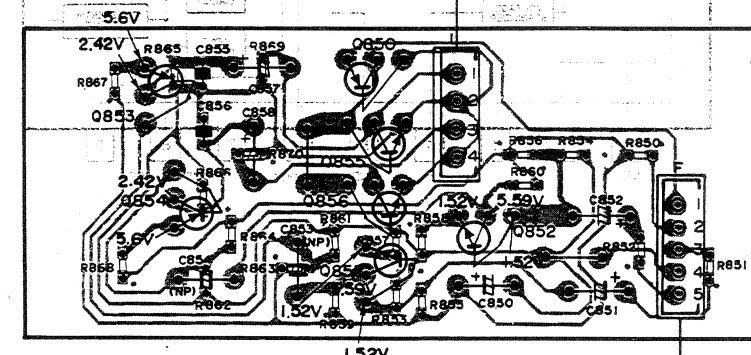
PRE OUT(1) P.C. BOARD

IC, Q Q800 Q808 Q806 Q802 Q801 Q807 Q805



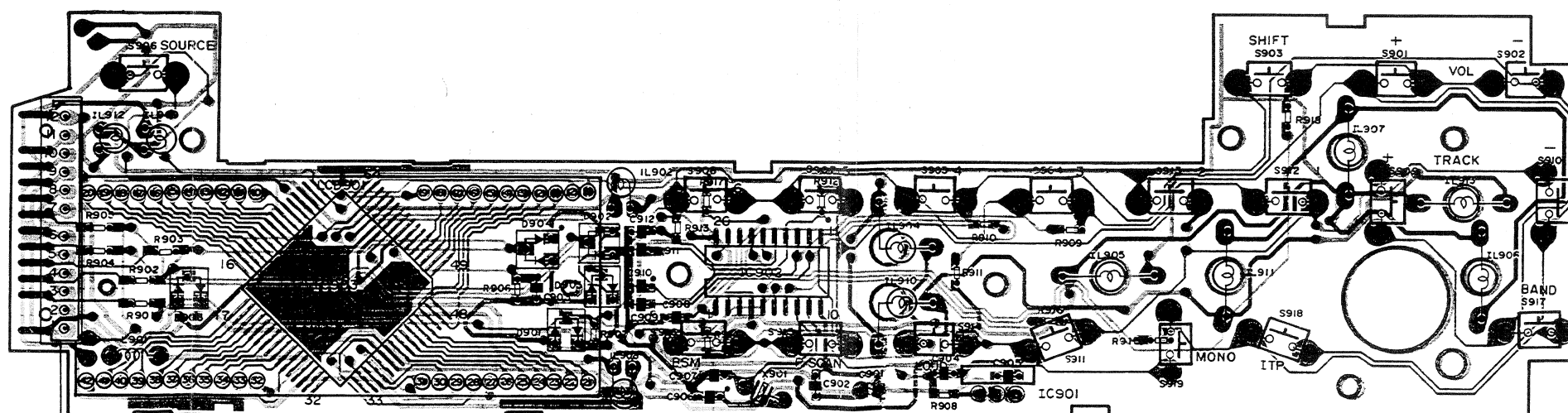
PRE OUT(2) P.C. BOARD

IC, Q Q853 Q854 Q850 Q855 Q856 Q851 Q852

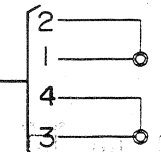


KEY BOARD UNIT

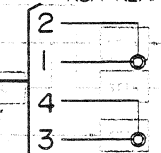
IC, Q IC903 IC902 IC901
ADJ



RCA FRONT



RCA REAR



TO FM/AM
TUNER UNIT

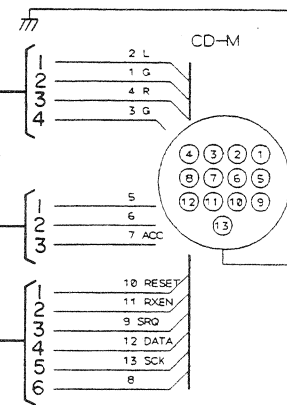
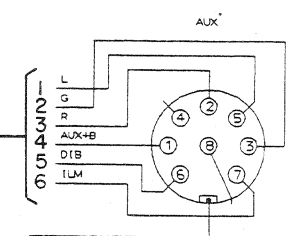
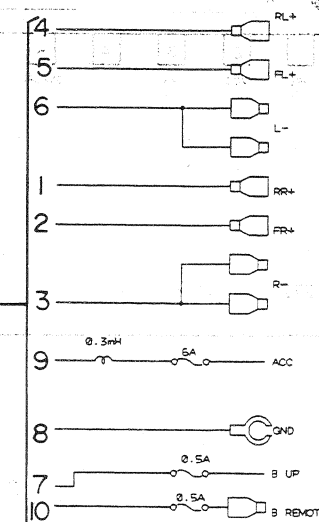


Fig. 6

10. SCHEMATIC CIRCUIT DIAGRAM (KEH-M7250/ES)

TO TUNER AMP P.C. BOARD

TUNER AMP P.C. BOARD

FM/AM TUNER UNIT

(Fig. 16)

HEAD UNIT: EXA1163

TEST TAPE 315Hz 0dB

P.C. BOARD (B)

PRE OUT (2) P.C. BOARD

P.C. BOARD (A)

MOTOR UNIT EXA1162

REGULATOR

SYSTEM CONTROL

IC502

PD4343A

LOOP FILTER

LCD DRIVER

IC903

LC7582A

LCD CAW1124

KEY BOARD UNIT

ELECTRONIC VOL. +MI

ACC SENSE

D981-985 DCC18

C. BOARD

PRE OUT(1) P.C. BOARD

NOTE:

□ Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2-2R2
0.022-R022

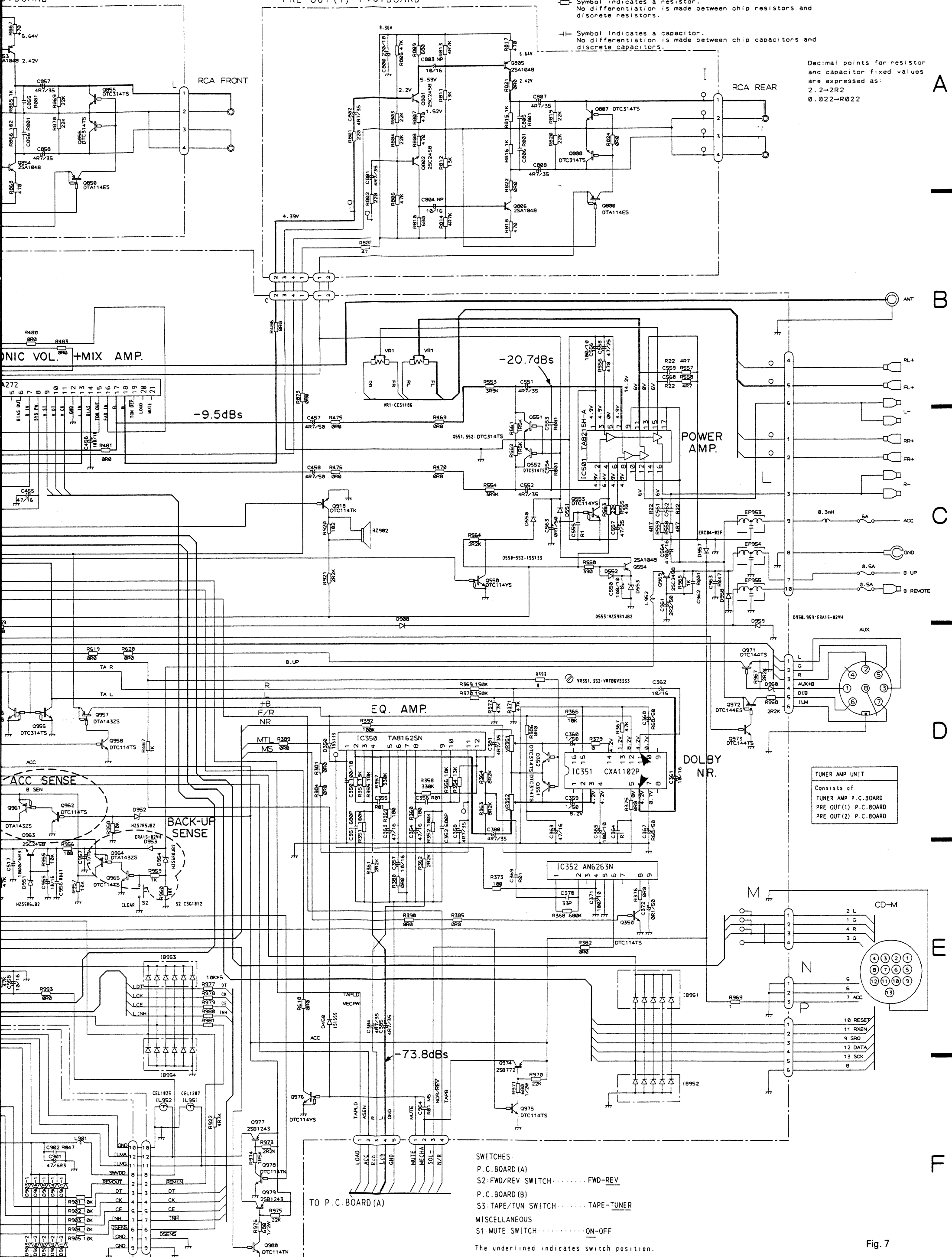


Fig. 7

11. SCHEMATIC CIRCUIT DIAGRAM (KEH-M7300/EW, M7300SDK/WG)

A

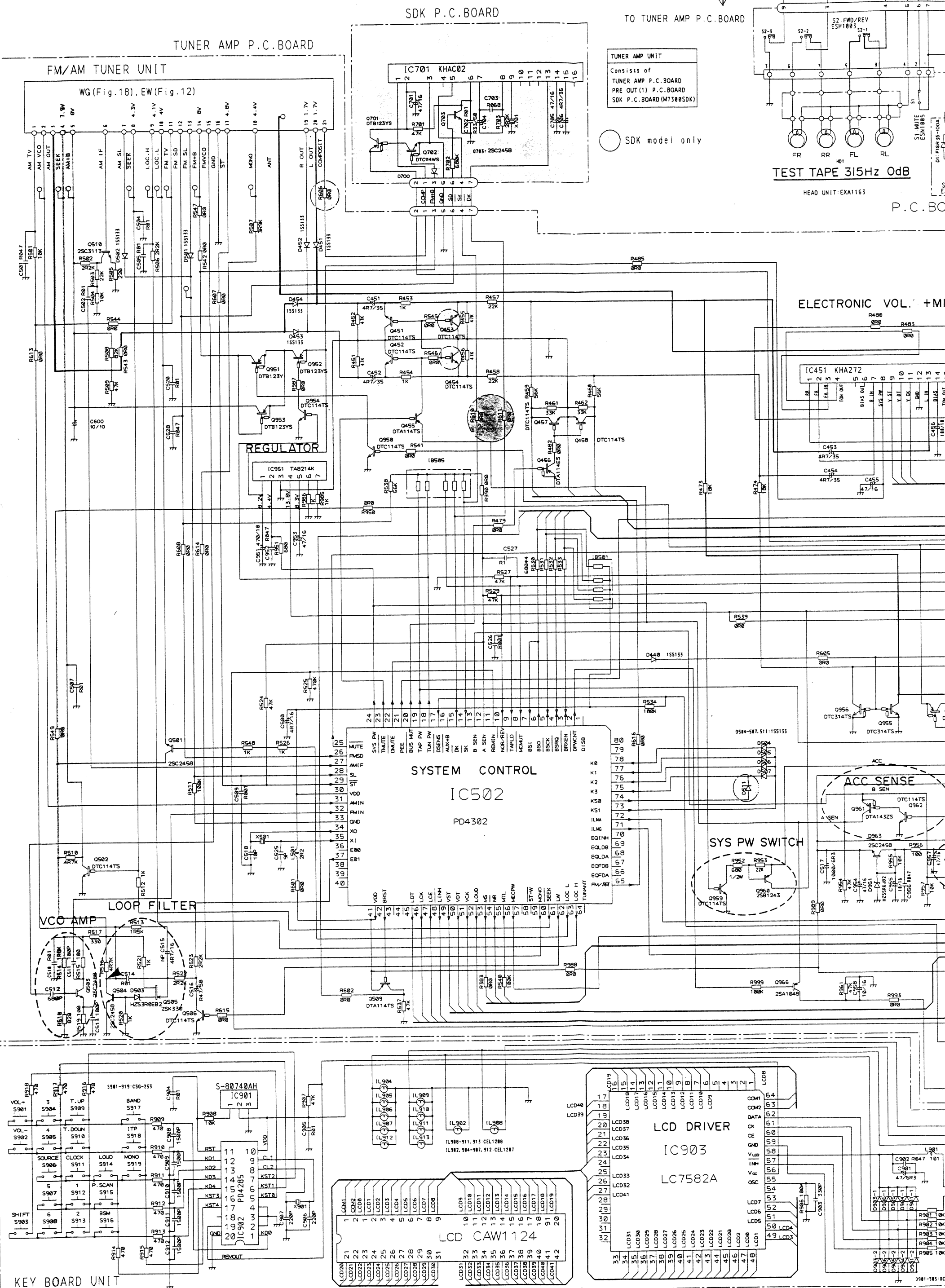
B

C

D

E

F



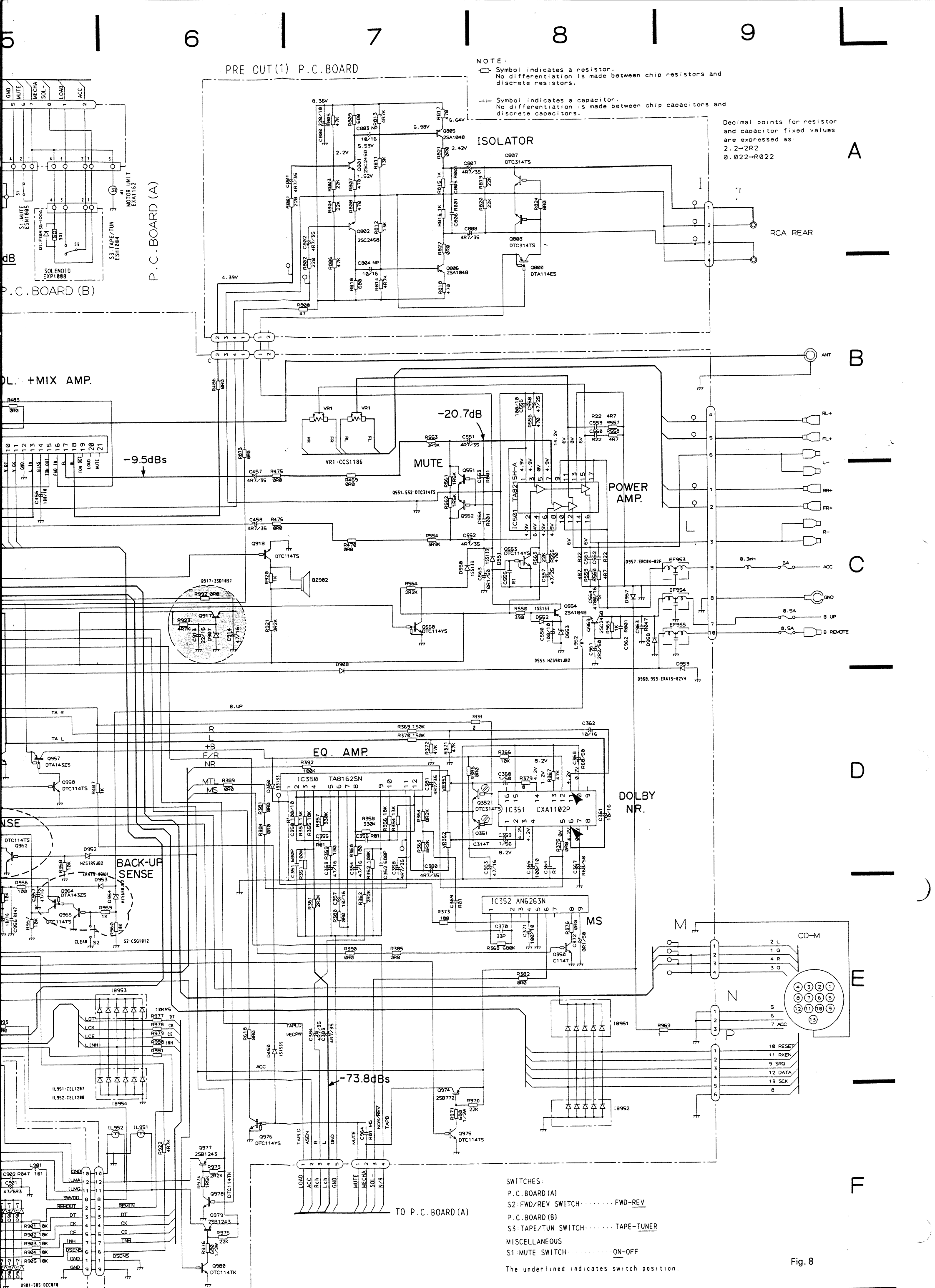


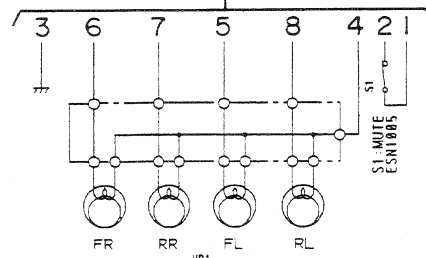
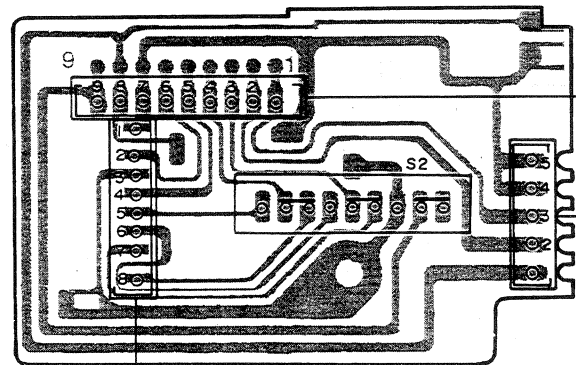
Fig. 8

12. CONNECTION DIAGRAM (KEH-M7300/EW, M7300SDK/WG)

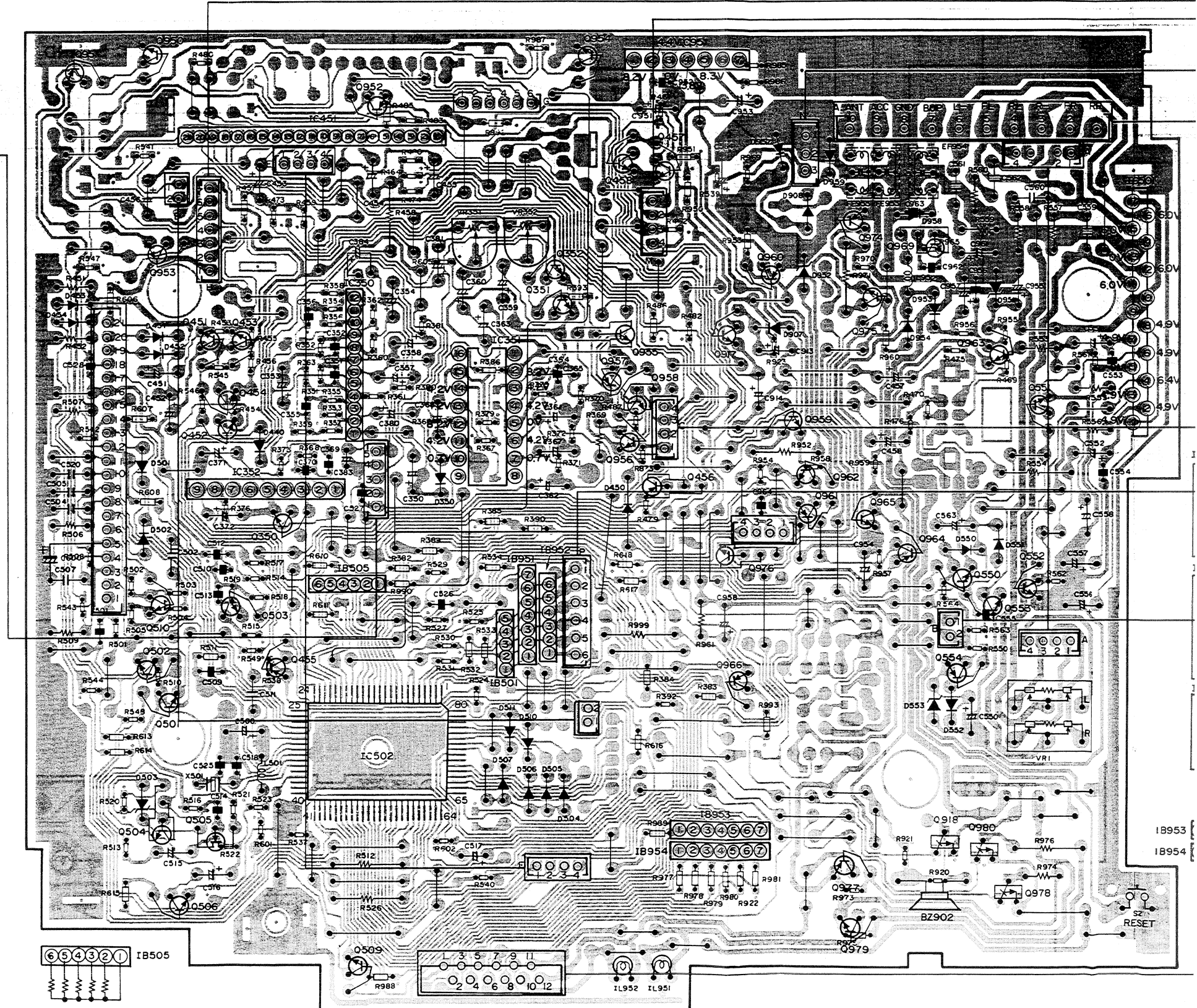
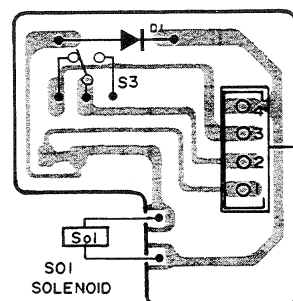
TUNER AMP P.C. BOARD

Q951 Q950 Q451 Q453 Q454 Q350 Q952 IC451 Q954 Q352 Q351 Q458 Q457 Q960 Q974 Q975 Q969 Q963 Q551 IC501
 Q953 Q452 IC352 IC350 IC351 Q456 Q976 Q460 Q959 Q962 Q961 Q965 Q964 Q550 Q552 Q553 Q554
 IC,Q Q510 Q502 Q501 Q504 Q505 Q506 Q503 Q455 IC502 Q509 Q958 Q957 Q956 Q955 IC951 Q966 Q977 Q979 Q918 Q980 Q978
 ADJ VR351 VR352

P.C. BOARD(A)



P.C. BOARD(B)



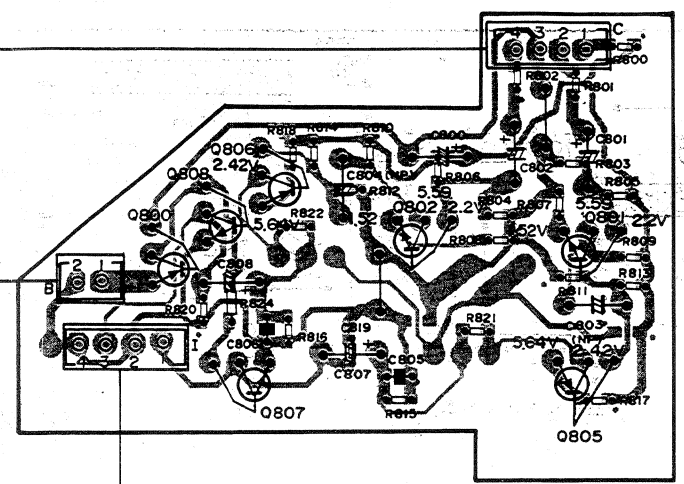
1B953
1B954

RESET

Q969 Q963 Q551 IC501
Q550 Q552 Q553 Q554
Q977 Q979 Q918 Q980 Q978

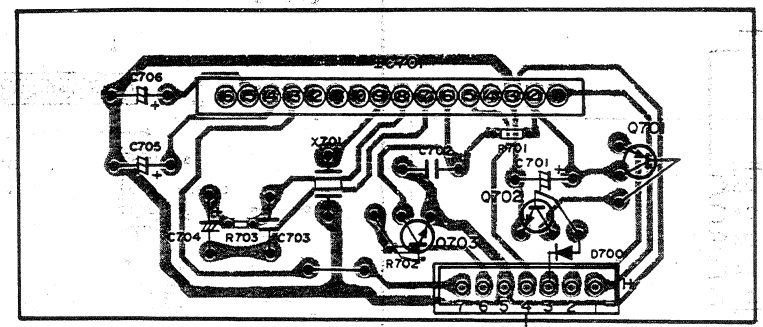
PRE OUT(1) P.C. BOARD

IC, Q Q800 Q808 Q806 Q802 Q801 Q805
Q807



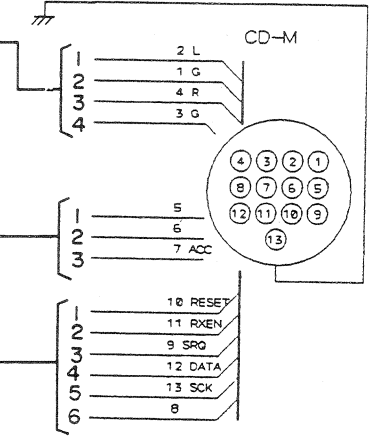
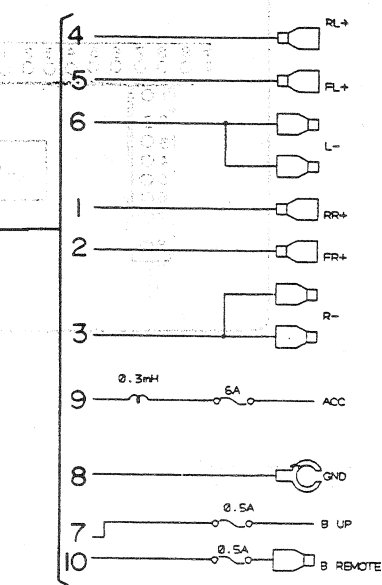
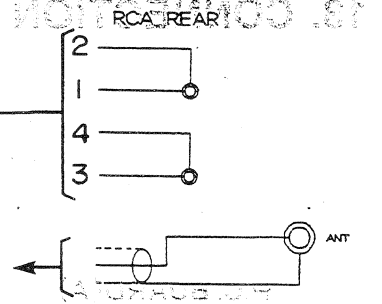
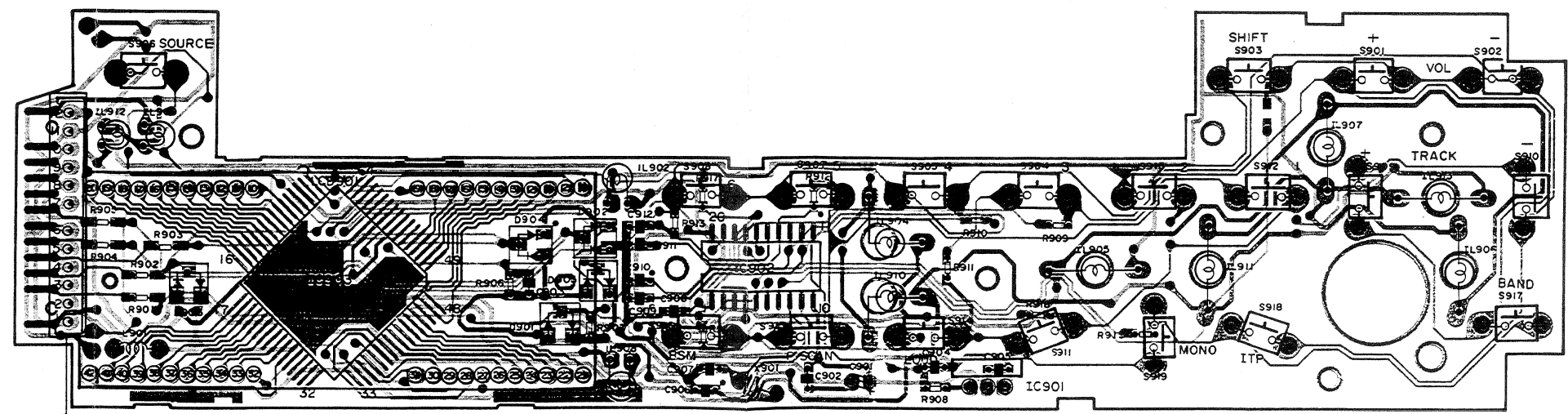
SDK P.C. BOARD

IC, Q IC701 Q703 Q702 Q701



KEY BOARD UNIT

IC, Q IC903 IC902 IC901
ADJ



A

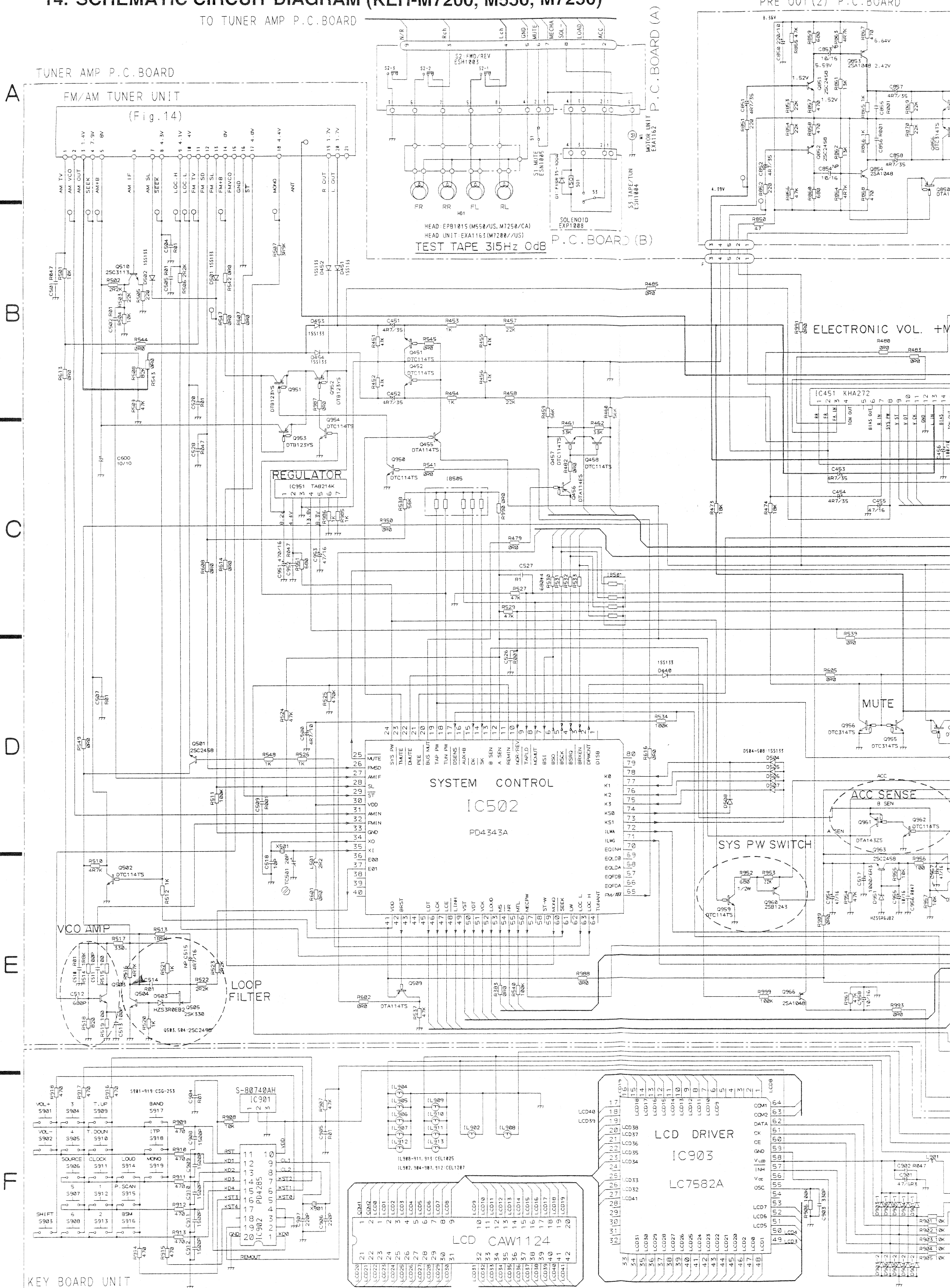
B

C

D

Fig. 9

TO TUNER AMP P.C. BOARD



C. BOARD

PRE OUT(1) P.C. BOARD

NOTE

□ Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

⊥ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

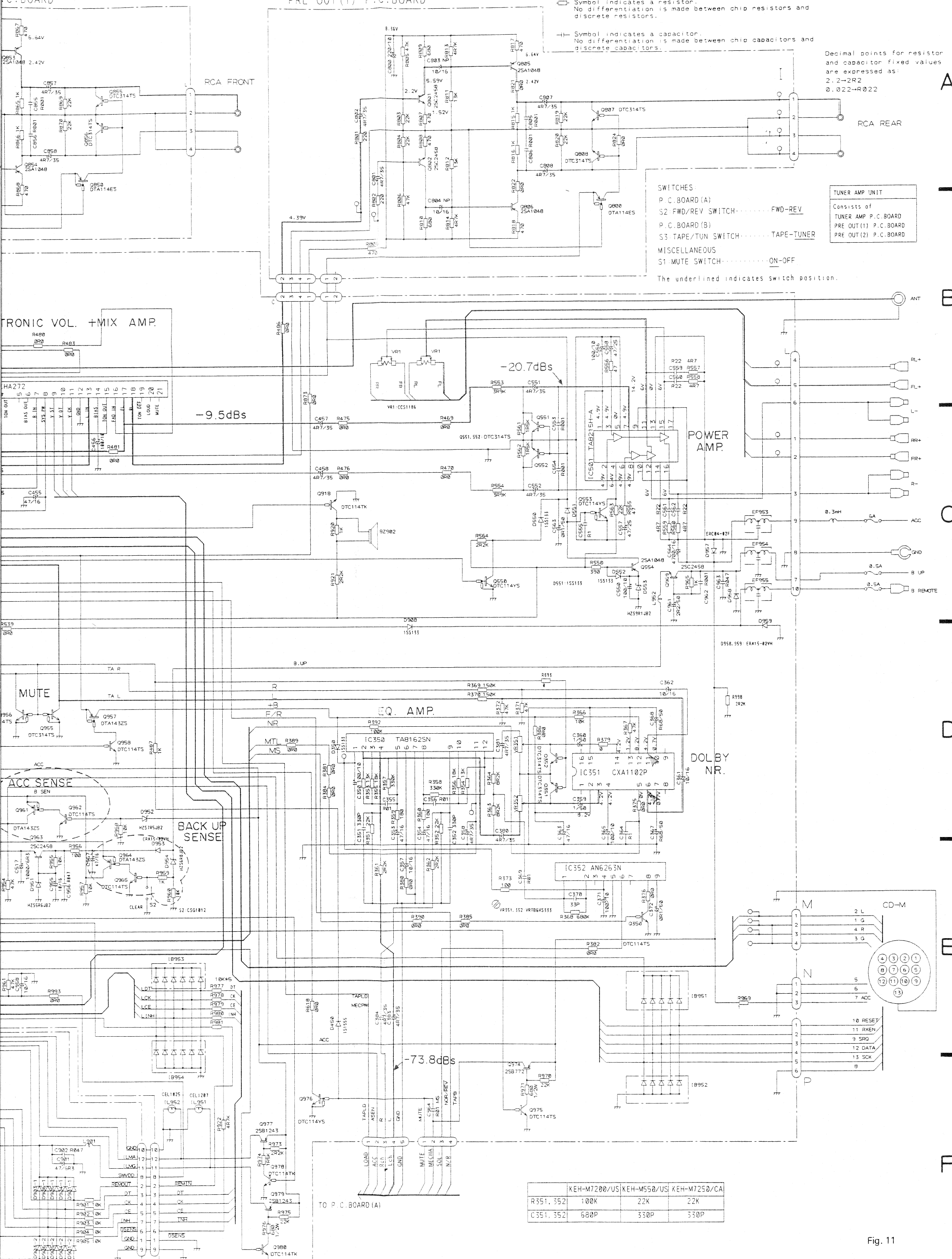


Fig. 11

15. CIRCUIT DIAGRAM AND PATTERN

15.1 FM/AM TUNER UNIT (KEH-M7300/EW)

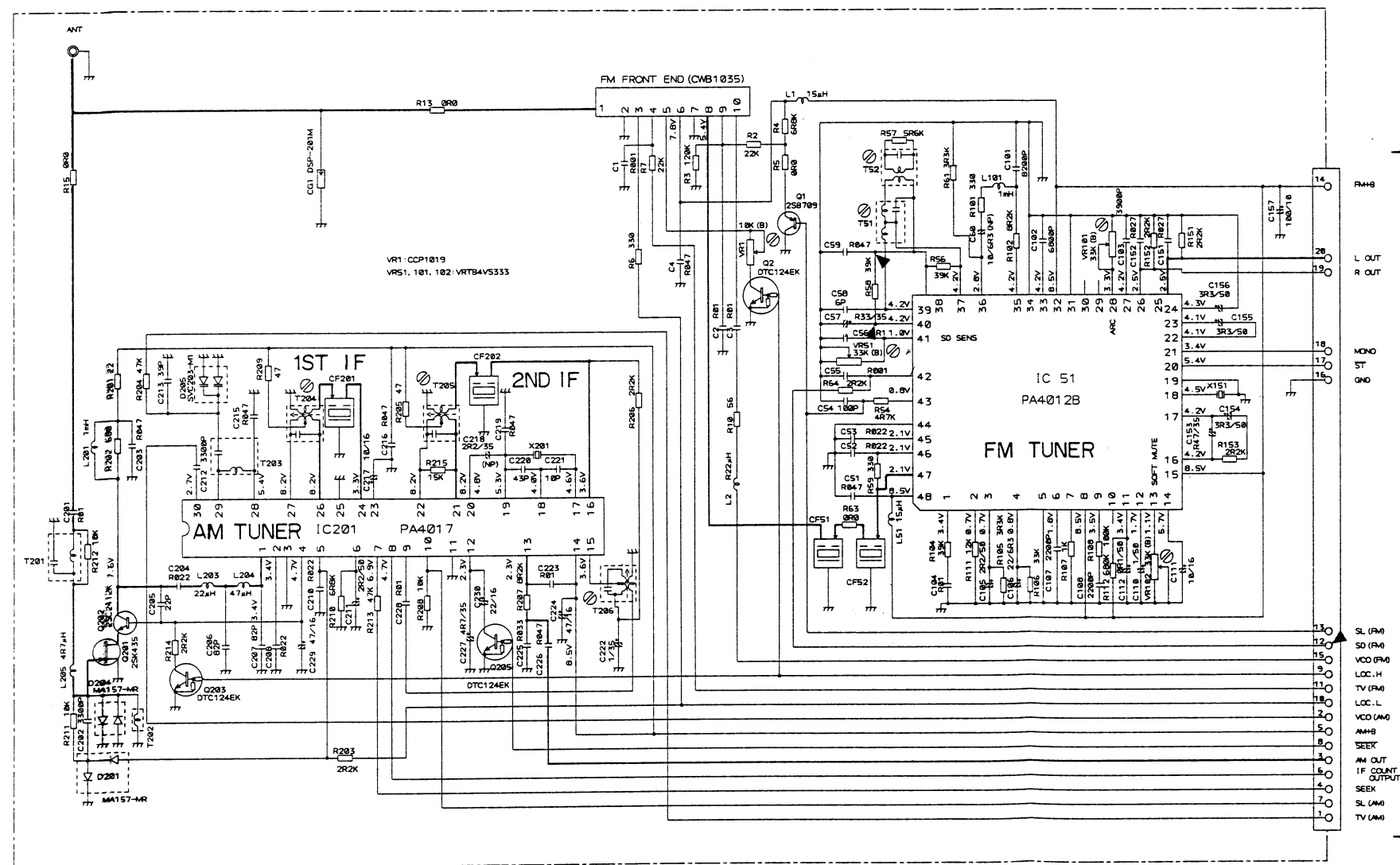
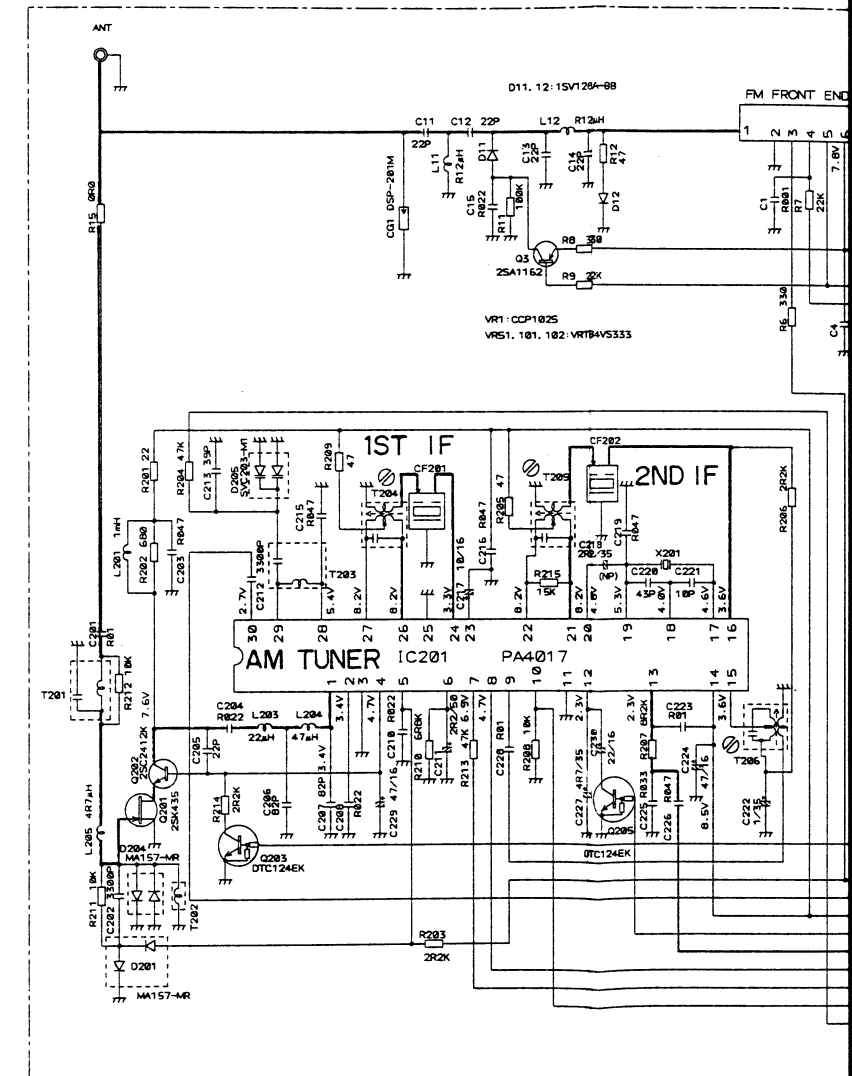


Fig. 12

15.2 FM/AM TUNER UNIT (KEH-M7200/US, M550/US, M7200/US)



NOTE

□ Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

—|— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

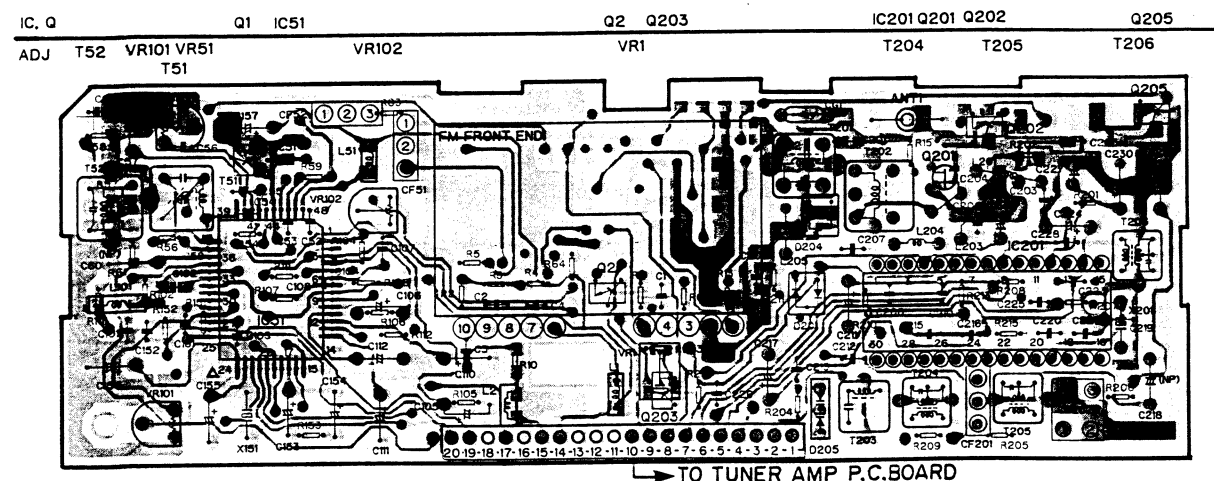
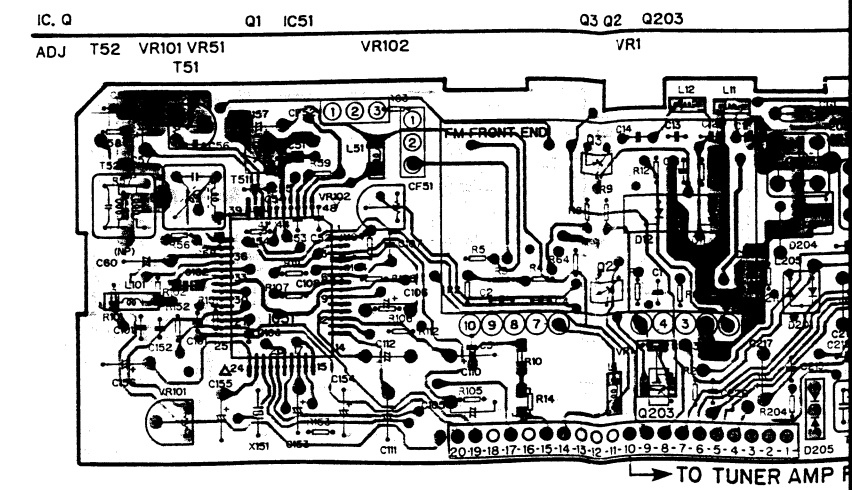


Fig. 13



15.2 FM/AM TUNER UNIT (KEH-M7200/US, M550/US, M7250/CA)

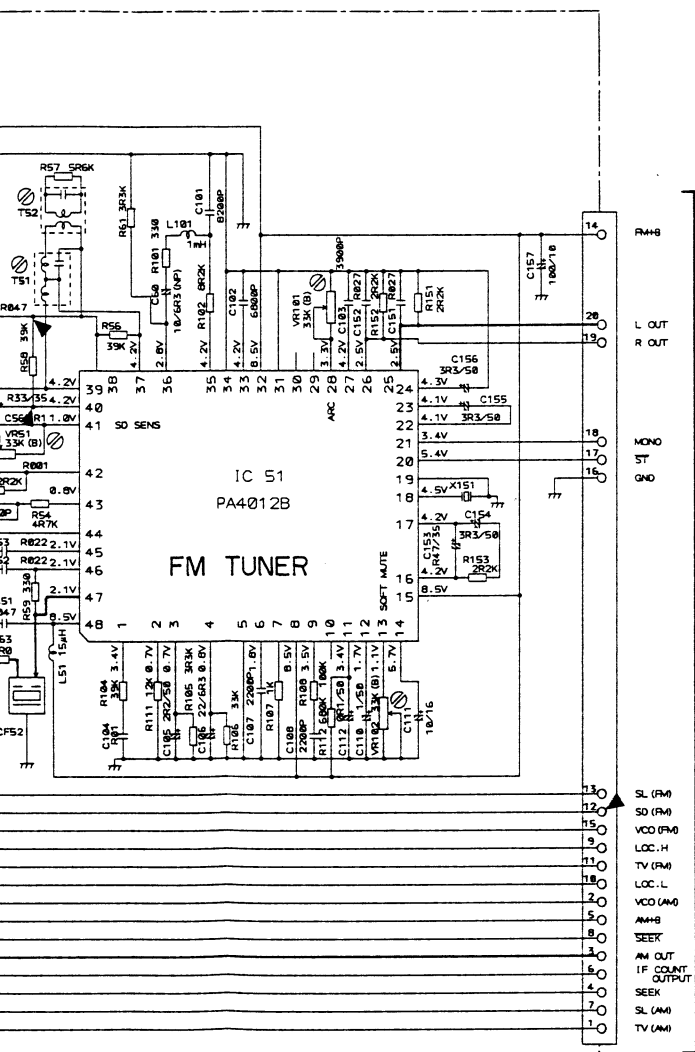


Fig. 12

TO TUNER
AMP P.C.BOARD

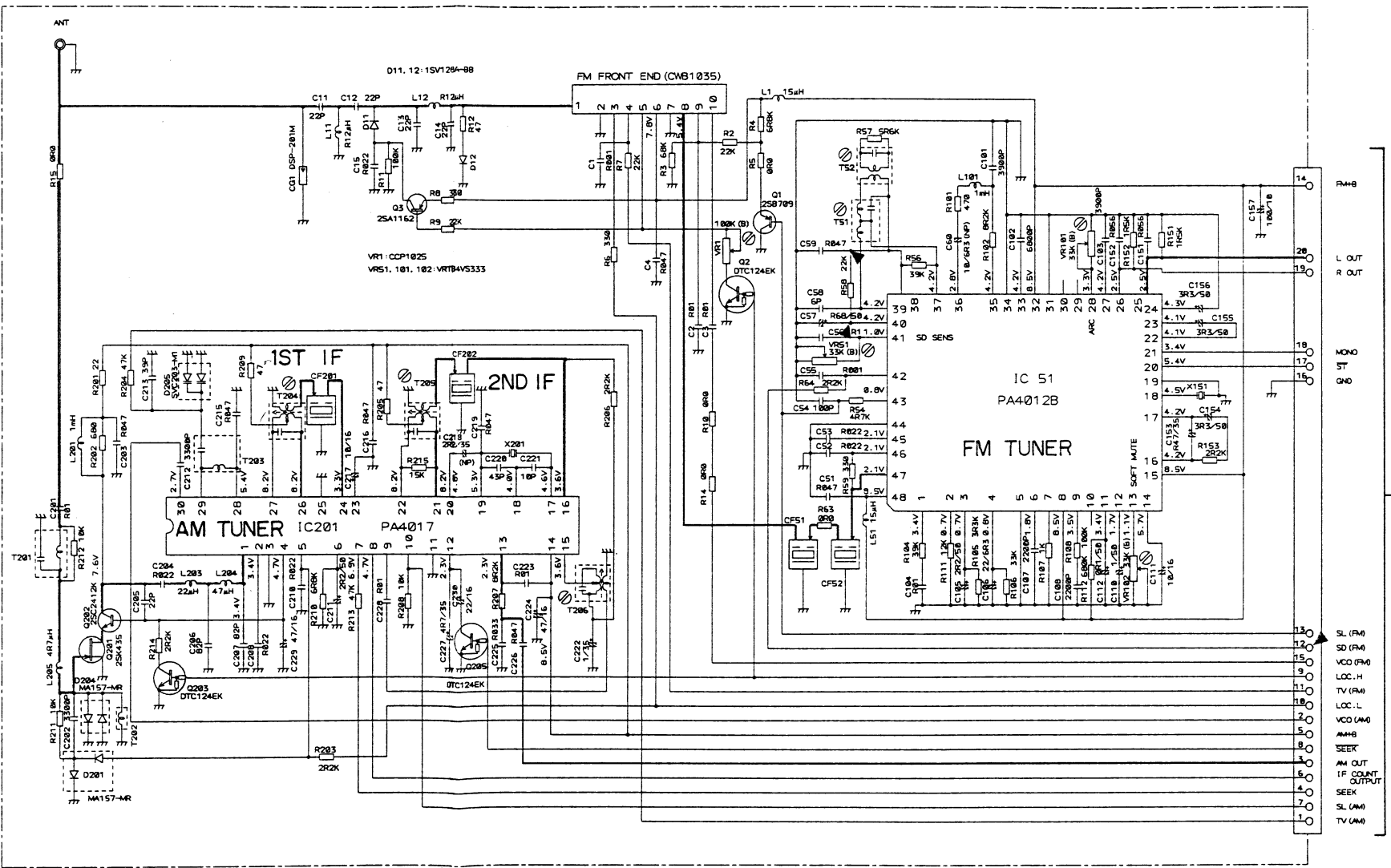


Fig. 14

TO TUNER
AMP P.C.BOARD

NOTE:
 □ Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 —||— Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
 2.2—R22
 0.022—R022

points for resistor
 for fixed values
 are expressed as:

022

Q205
 T206

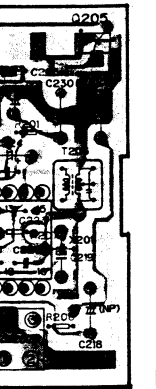


Fig. 13

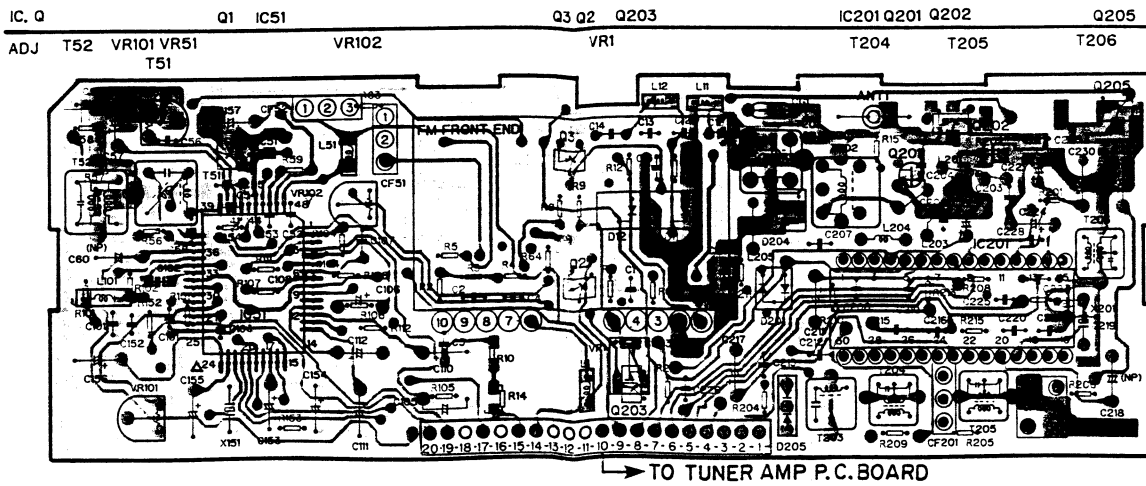


Fig. 15

TO TUNER AMP P.C.BOARD

15.3 FM/AM TUNER UNIT (KEH-M7250/ES)

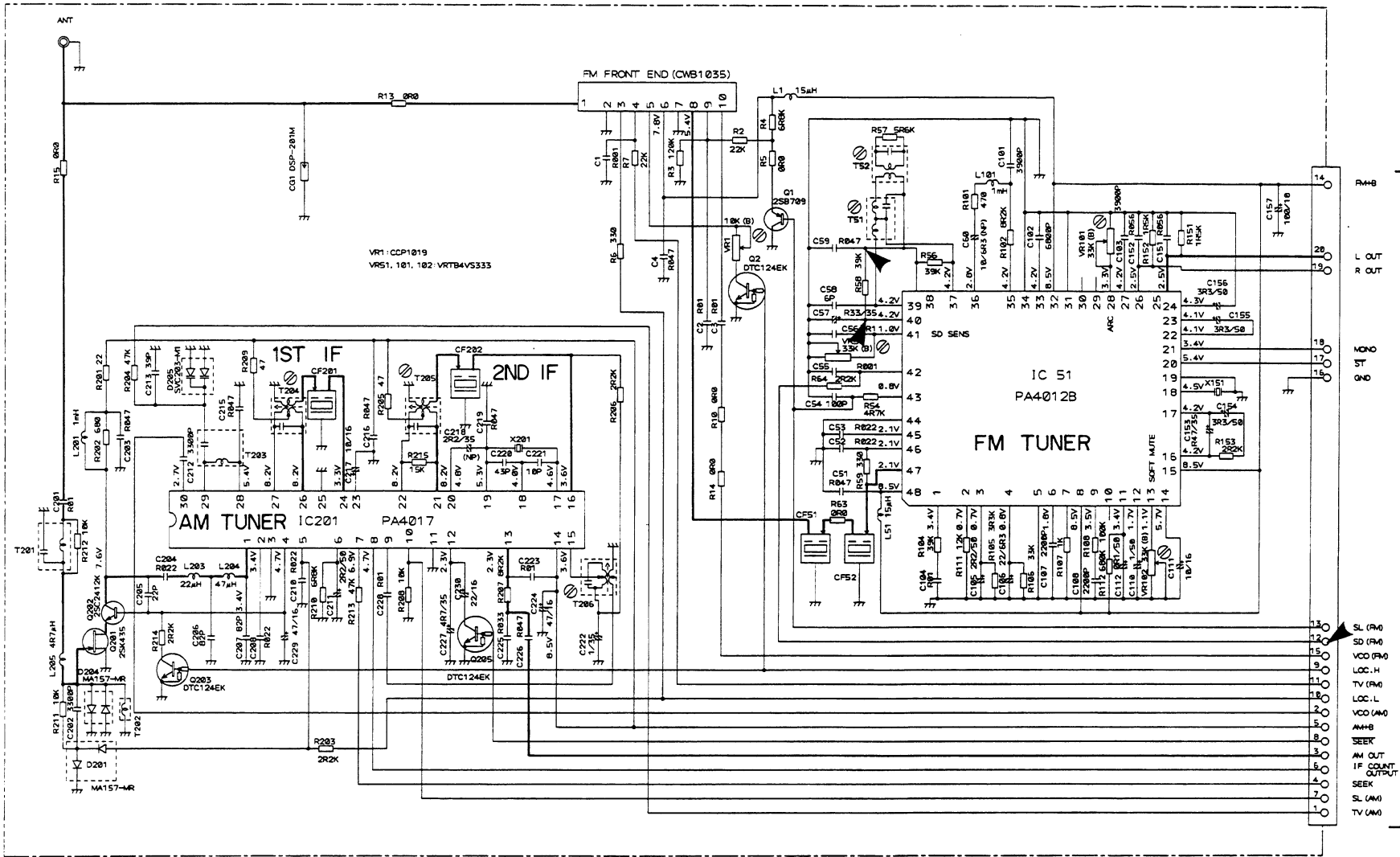


Fig. 16

15.4 FM/AM TUNER UNIT (KEH-M7300SDK/WG)

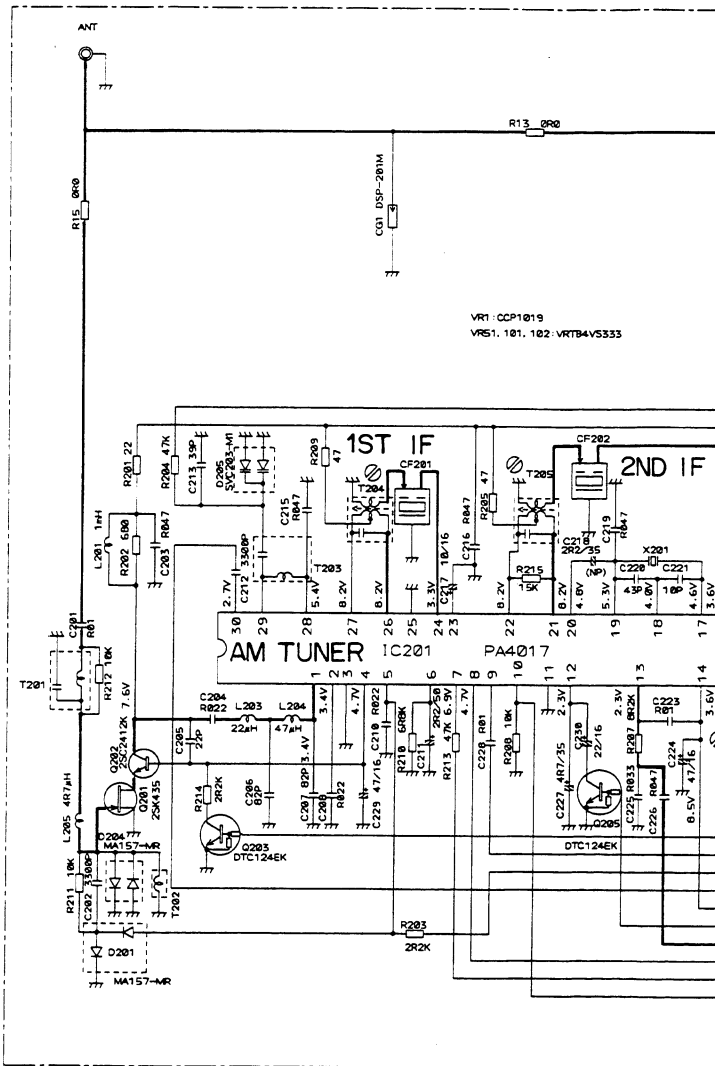


Fig. 17

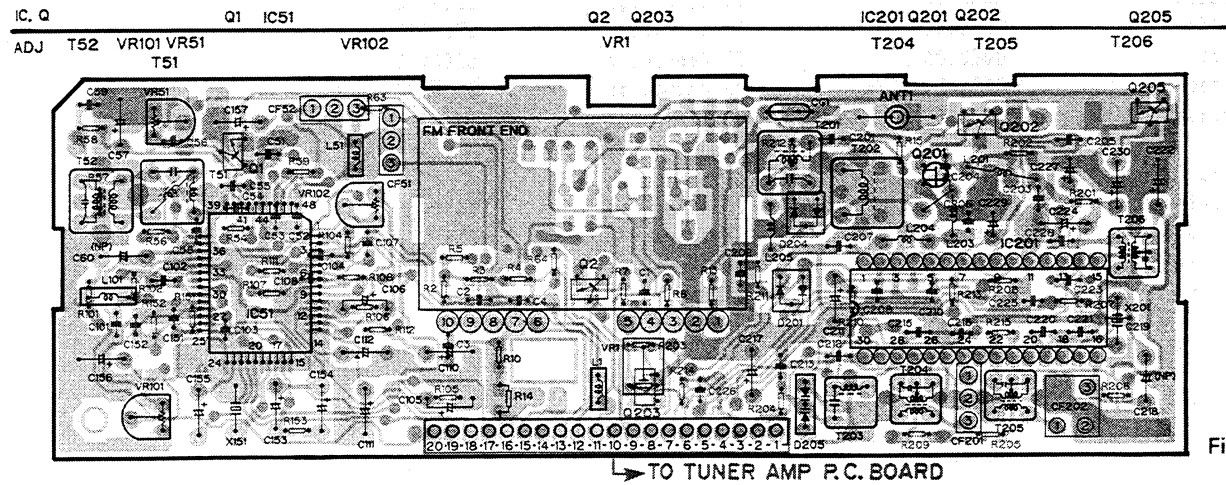
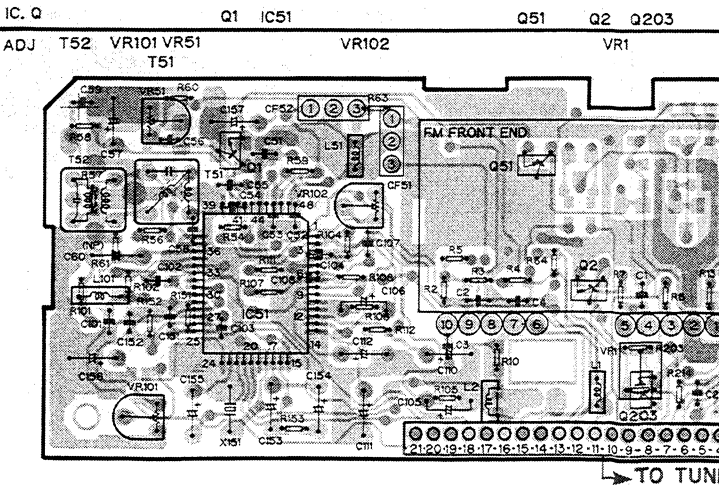


Fig. 17



15.4 FM/AM TUNER UNIT (KEH-M7300SDK/WG)

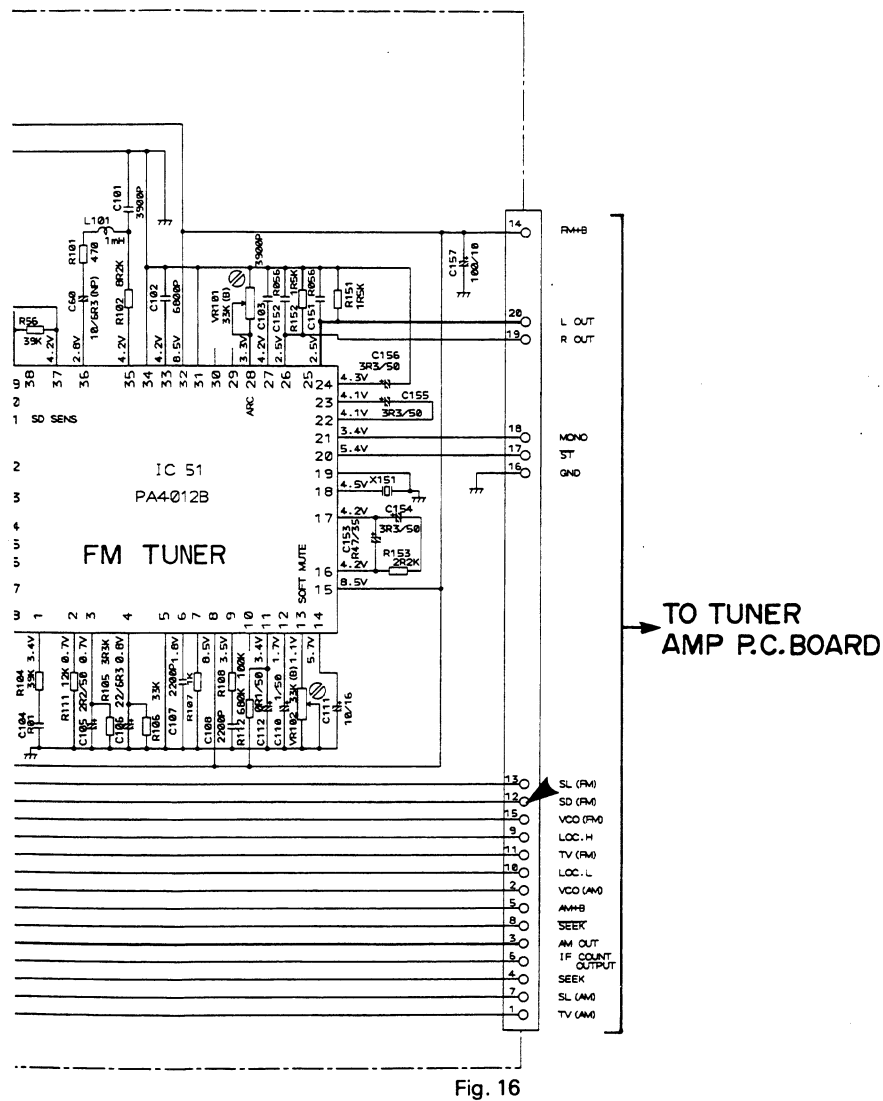


Fig. 16

Resistor values

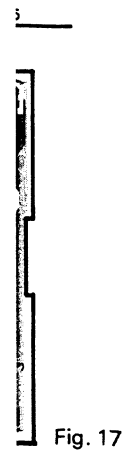


Fig. 17

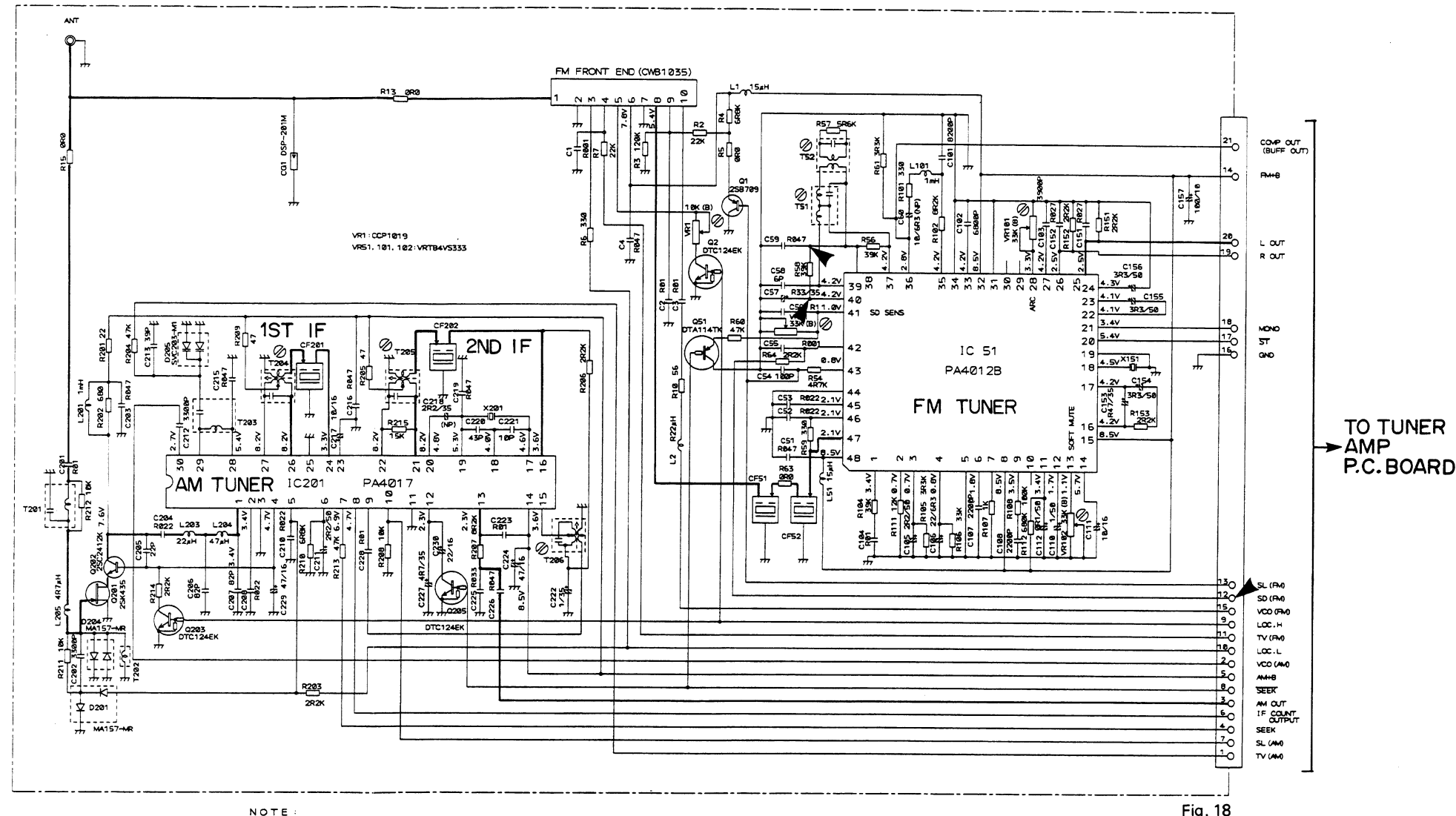


Fig. 18

NOTE:

□ Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.

—|— Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

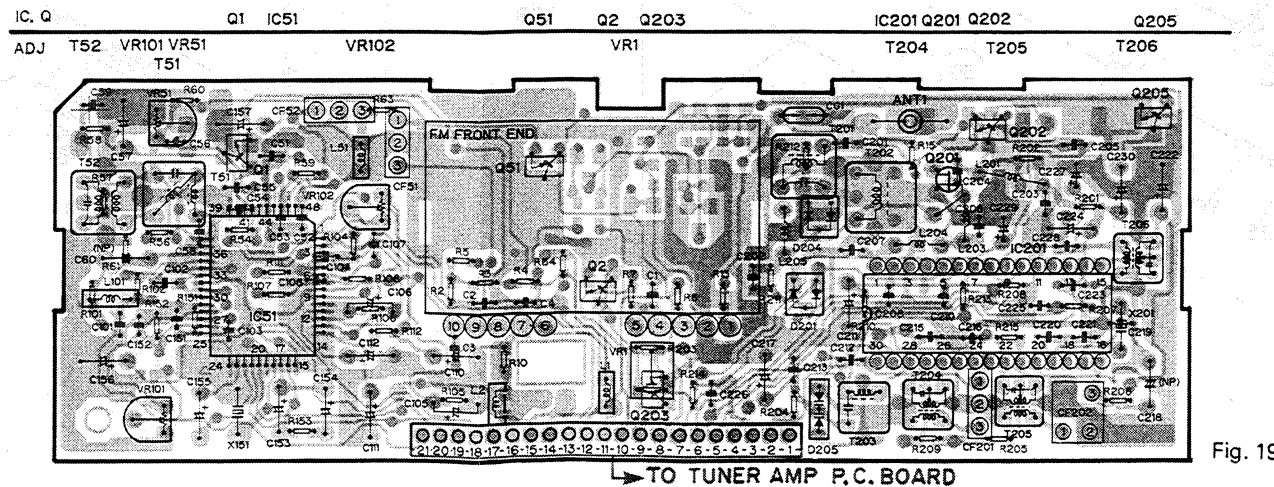


Fig. 19

TO TUNER AMP P.C. BOARD

16. CHASSIS EXPLODED VIEW

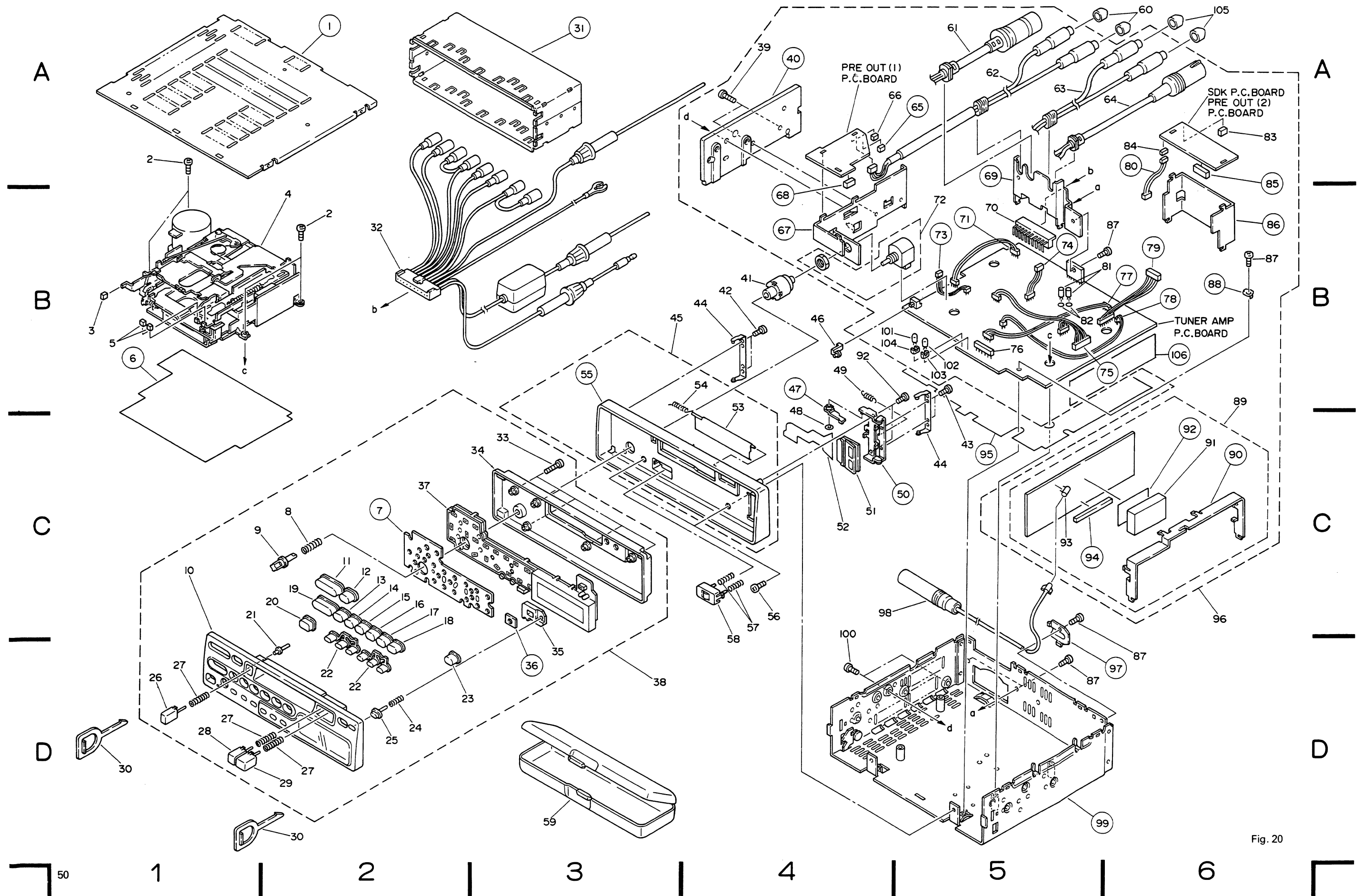


Fig. 20

•Parts List (KEH-M7300/EW)

NOTE:

- The parts marked with "⊙" may need long time to supply and their supply is subject to refuse as the case may be.
- Because the parts with encircled number shown on the dismantling drawing are not spare parts, we are unable to supply them in principle.

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Case	CNB1431	45	Panel Unit	CXA4134
2	Screw	BMZ26P050FMC	46	Button	CAC2988
3	Button	CAC2819	47	Arm Unit	CXA4000
⊙ 4	Cassette Mechanism Assy	EXK1735	48	Washer	CBF1037
			49	Spring	CBH1395
5	Button	CAC2820	50	Holder Unit	CXA3999
6	Cover	CNM3157	51	Socket	CKS1664
7	Cushion	CNM3155	52	P.C. Board	CNP2597
8	Spring	CBH1391	53	Door	CAT1360
9	Knob (Fader)	CAA1272	54	Spring	CBH1350
10	Grille Unit	CXA4142	55	Panel	CNS2152
11	Button (Vol)	CAC2821	56	Screw	CBA1154
12	Button (Shift)	CAC2822	57	Spring	CBH1393
13	Button (1)	CAC2811	58	Button Unit	CXA4417
14	Button (2)	CAC2812	59	Case	CNS2269
15	Button (3)	CAC2813	60	Cap	CNV2680
16	Button (4)	CAC2814	61	DIN Connector Cord	CDE3419
17	Button (5)	CAC2815	62	Connector	CDE3377
18	Button (6)	CAC2816	63	.....
19	Button (Tune)	CAC2828	64	.....
20	Button (-)	CAC2817	65	Plug	CKS-783
21	Button (Clear)	CAC2829	66	Plug	CKS1224
22	Button Unit	CXA4132	67	Holder	CNC3579
23	Button (SD)	CAC2826	68	Plug	CKS-785
24	Spring	CBH1390	69	Holder	CNC3581
25	Button	CAC2827	70	Plug	CKS-467
26	Button (Eject)	CAC2823	71	Connector	CDE3171
27	Spring	CBH1388	72	Volume (Fader)	CCS1186
28	Button (REW)	CAC2824	73	Connector	CDE3208
29	Button (FF)	CAC2825	74	Connector	CDE3173
30	Handle	CNC3664	75	Connector	CDE3174
31	Holder	CNC3342	76	Connector	CKS1260
32	Cord	CDE3182	77	Connector	CDE3210
33	Screw	BPZ20P120FZK	78	Connector	CDE3222
34	Grille Cover	CNS2151	79	.....
35	Lens	CNV2774	80	.....
36	Cushion	CNM3156	81	Capacitor	CCH1016
⊙ 37	Key Board Unit	CWM2692	82	Spacer	CNW-662
38	Grille Assy	CXA4169	83	.....
39	Screw	BMZ30P120FMC	84	.....
40	Heat Sink	CNC3747	85	.....
41	Knob	CAA1250	86	.....
42	Screw	CBA1179	87	Screw	BMZ30P050FMC
43	Screw	PMZ20P030FMC	88	Holder	CNC2218
44	Holder Unit	CXA3998	⊙ 89	FM/AM Tuner Unit	CWE1228

Mark No.	Description	Part No.	Mark No.	Description	Part No.
90	Holder	CNC3395	100	Screw	BMZ30P080FMC
91	FM Front End	CWB1035	101	Lamp (Green)	CEL1207
92	Insulator	CNM2105	102	Lamp	CEL1208
93	Antenna Jack	CKX1010	103	Holder	CNV1906
94	Plug	CKS1628	104	Holder	CNV1906
			105	.....
95	Insulator	CNM2941	106	Insulator	CNM3199
96	Tuner Amp Unit	CWM2672			
97	Holder	CNC2913			
98	Antenna Cable	CDH1128			
99	Chassis Unit	CXA4191			

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK
No. Description	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
4 Cassette Mechanism Assy	EXK1735	EXK1735	EXK1765	EXK1765	EXK1735	EXK1735
10 Grille Unit	CXA4142	CXA4144	CXA4143	CXA4241	CXA4145	CXA4133
11 Button	CAC2821	CAC2932	CAC2932	CAC2932	CAC2821	CAC2821
16 Button	CAC2814	CAC2934	CAC2934	CAC2934	CAC2814	CAC2814
17 Button	CAC2815	CAC2935	CAC2935	CAC2935	CAC2815	CAC2815
18 Button	CAC2816	CAC2936	CAC2936	CAC2936	CAC2816	CAC2816
19 Button	CAC2828	CAC2933	CAC2933	CAC2933	CAC2828	CAC2828
32 Cord	CDE3182	CDE3181	CDE3181	CDE3181	CDE3183	CDE3182
37 Key Board Unit	CWM2692	CWM2694	CWM2694	CWM2694	CWM2694	CWM2692
38 Grille Assy	CXA4169	CXA4171	CXA4172	CXA4173	CXA4175	CXA4168
45 Panel Unit	CXA4134	CXA4157	CXA4157	CXA4157	CXA4156	CXA4134
60 Cap	CNV2680	CNW-829	CNV2680	CNV2680	CNW-829	CNW-829
62 Connector	CDE3377	CDE3157	CDE3155	CDE3155	CDE3157	CDE3377
63 Connector	----	CDE3156	CDE3154	CDE3154	CDE3156	----
64 Connector	----	----	----	----	CDE3420	----
66 Plug	CKS1224	----	----	----	----	CKS1224
69 Holder	CNC3581	CNC3753	CNC3753	CNC3753	CNC3752	CNC3581
78 Connector	CDE3222	CDE3303	CDE3303	CDE3303	CDE3303	CDE3222
79 Connector	----	----	----	----	----	CDE3170
80 Connector	----	CDE3172	CDE3172	CDE3172	CDE3172	----
83 Plug	----	CKS1238	CKS1238	CKS1238	CKS1238	----
84 Plug	----	CKS-786	CKS-786	CKS-786	CKS-786	----
85 Plug	----	----	----	----	----	CKS1040
86 Holder	----	CNC3577	CNC3577	CNC3577	CNC3577	CNC3577
89 FM/AM Tuner Unit	CWE1228	CWE1225	CWE1225	CWE1225	CWE1226	CWE1227
96 Tuner Amp Unit	CWM2672	CWM2675	CWM2676	CWM2676	CWM2678	CWM2673
99 Chassis Unit	CXA4191	CXA4191	CXA4191	CXA4191	CXA4191	CXA3851
102 Lamp	CEL1208	CEL1025	CEL1025	CEL1025	CEL1025	CEL1208
105 Cap	----	CNW-829	CNV2680	CNV2680	CNW-829	----

17. KEY BOARD UNIT EXPLODED VIEW

•Parts List (KEH-M7300/EW)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
①	1 Key Board Unit	CWM2692	6	Bush	CNV1859
	2 Lens	CNV2688	7	Bush	CNV1859
	3 Holder	CNV2684	8	Plug	CKS1663
	4 Lamp	CEL1208	9	Holder	CNV2685
	5 Lamp	CEL1207	10	Lens	CNV2686
			11	LCD	CAW1124
			12	Insulator	CNM3051
			13	Holder	CNC3576
			14	Spacer	CNM1642

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK
No. Description	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
① 1 Key Board Unit	CWM2692	CWM2694	CWM2694	CWM2694	CWM2694	CWM2692
4 Lamp	CEL1208	CEL1025	CEL1025	CEL1025	CEL1025	CEL1208

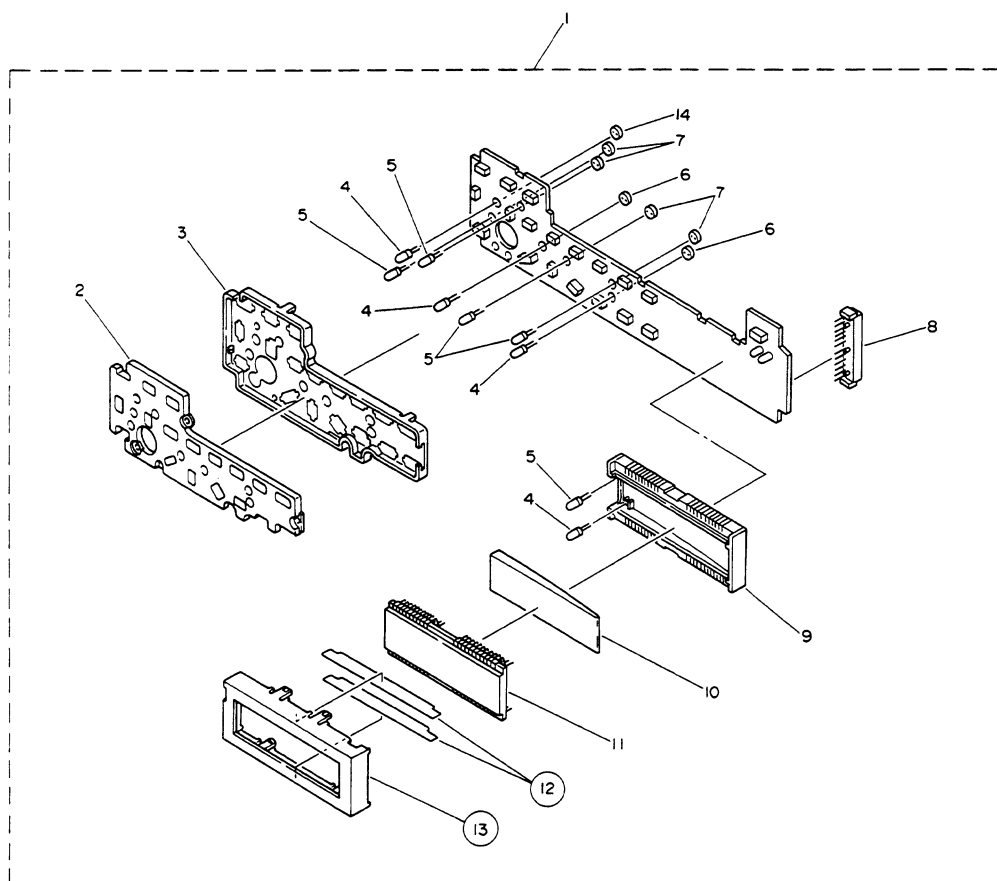


Fig. 21

18. CASSETTE MECHANISM ASSY EXPLODED VIEW

● KEH-M7300/EW, M7300SDK/WG, M7200/US, M7250/ES

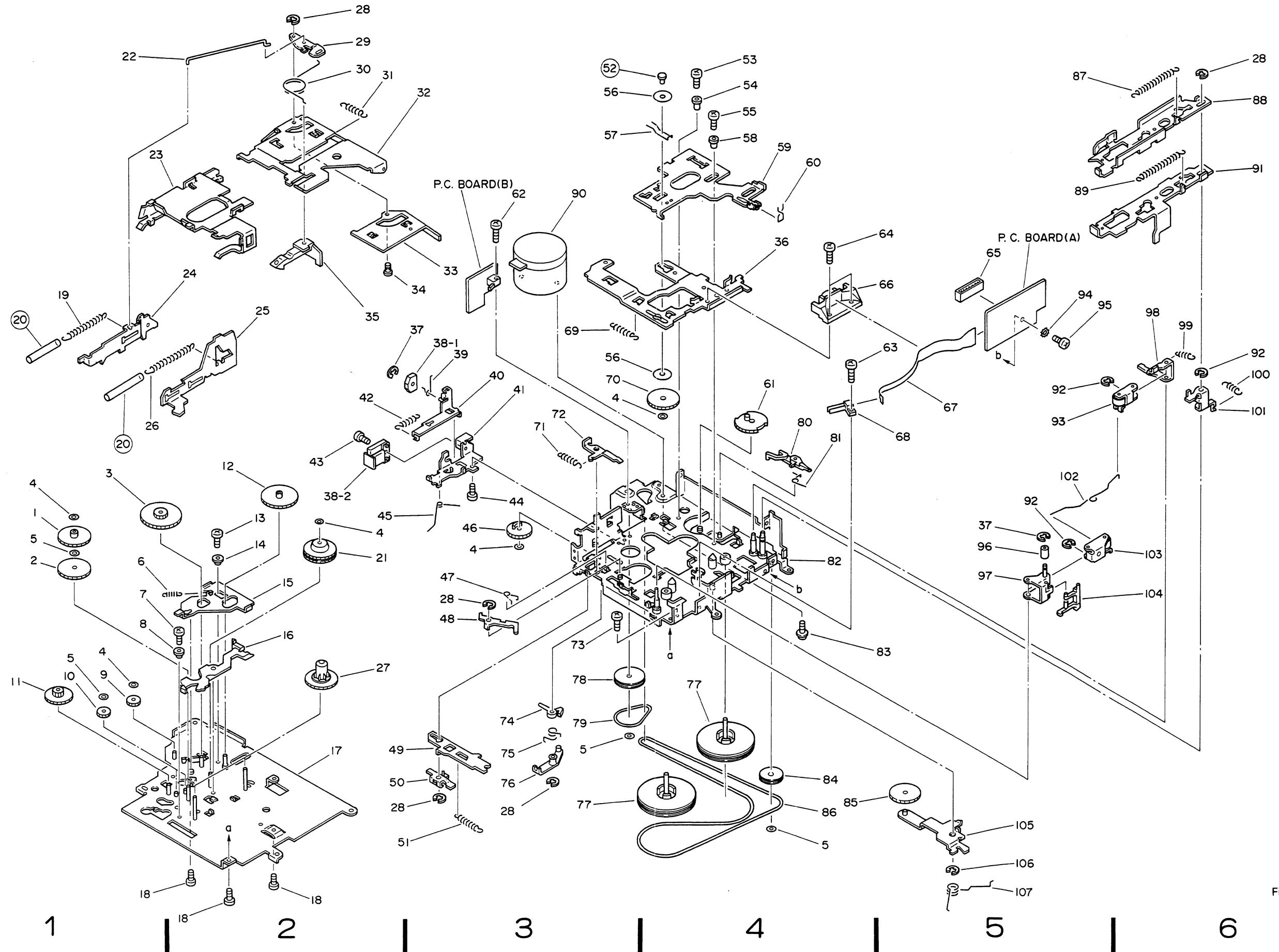


Fig. 22

•Parts List (KEH-M7300/EW, M7300SDK/WG, M7300US, M7250/ES)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Gear	ENV1212	46	Gear	ENV1262
2	Gear	ENV1211	47	Spring	EBH1337
3	Gear	ENV1203	48	Arm	ENC1236
4	Washer	CBF1037	49	Lever Unit	EXA1173
5	Washer	CBF1038	50	Arm	ENC1237
6	Spring	EBH1338	51	Spring	EBH1335
7	Screw	JFZ17P035FNI	52	Shaft	
8	Shaft	ELA1259	53	Screw	JFZ20P025FNI
9	Gear	ENV1230	54	Collar	ELA1229
10	Gear	ENV1274	55	Screw	JFZ20P040FNI
11	Gear	ENV1264	56	Washer	EBF1015
12	Gear	ENV1204	57	Spring	EBH1372
13	Screw	JFZ17P018FNI	58	Collar	ELA1220
14	Collar	ELA1244	59	Lever	ENC1269
15	Arm	ENC1241	60	Spring	EBH1361
16	Arm	ENV1261	61	Gear	ENV1205
17	Sub Chassis Unit	EXA1169	62	Screw	CBA1054
18	Screw	BMZ20P025FMC	63	Screw	CBA1038
19	Spring (Black)	EBH1306	64	Screw	CBA1015
20	Tube		65	Plug	CKS1056
21	Gear Unit	EXA1159	66	Head Unit	EXA1163
22	Spring	EBH1308	67	P.C. Board	ENP1042
23	Holder	ENC1205	68	Switch	ESN1005
24	Lever	ENC1243	69	Spring	EBH1334
25	Lever	ENC1235	70	Gear	ENV1208
26	Spring	EBH1307	71	Spring	EBH1333
27	Real Unit	EXA1167	72	Arm	ENC1240
28	Washer	YE15FUC	73	Screw	BSZ20P040FMC
29	Arm	ENC1221	74	Arm	ENV1265
30	Spring	EBH1305	75	Spring	EBH1336
31	Spring	EBH1364	76	Arm Unit	EXA1171
32	Frame	ENC1204	77	Flywheel Unit	EXA1161
33	Arm	ENC1215	78	Gear	ENV1229
34	Shaft	ELA1251	79	Belt	ENT1020
35	Lever	ENV1222	80	Arm	ENV1206
36	Head Base Unit	EXA1203	81	Spring	EBH1317
37	Washer	YE12FUC	82	Chassis Unit	EXA1168
38	Solenoid	EXP1008	83	Screw	PMS26P025FUC
39	Spring	EBH1353	84	Pulley	ENV1207
40	Lever Unit	EXA1172	85	Gear	ENV1209
41	Bracket	ENC1239	86	Belt	ENT1018
42	Spring	EBH1339	87	Spring (Silver)	EBH1322
43	Screw	EBA1023	88	Lever (FF)	ENC1244
44	Screw	BMZ20P025FMC	89	Spring (Brown)	EBH1365
45	Spring	EBH1340	90	Motor Unit	EXA1162

KEH-M7300

Mark No.	Description	Part No.	Mark No.	Description	Part No.
91	Lever (REW)	ENC1245	101	Arm	ENC1264
92	Washer	YE20FUC	102	Spring	EBH1366
93	Pinch Roller Unit	EXA1193	103	Pinch Roller Unit	EXA1194
94	Washer	WH23FMC	104	Arm	ENV1227
95	Screw	BSZ23P040FMC	105	Arm Unit	EXA1155
96	Roller	ELA1247	106	Washer	YE30FUC
97	Arm Unit	EXA1166	107	Spring	EBH1310
98	Arm	ENC1266			
99	Spring	EBH1312			
100	Spring	EBH1311			

•KEH-M550/US, M7250/CA

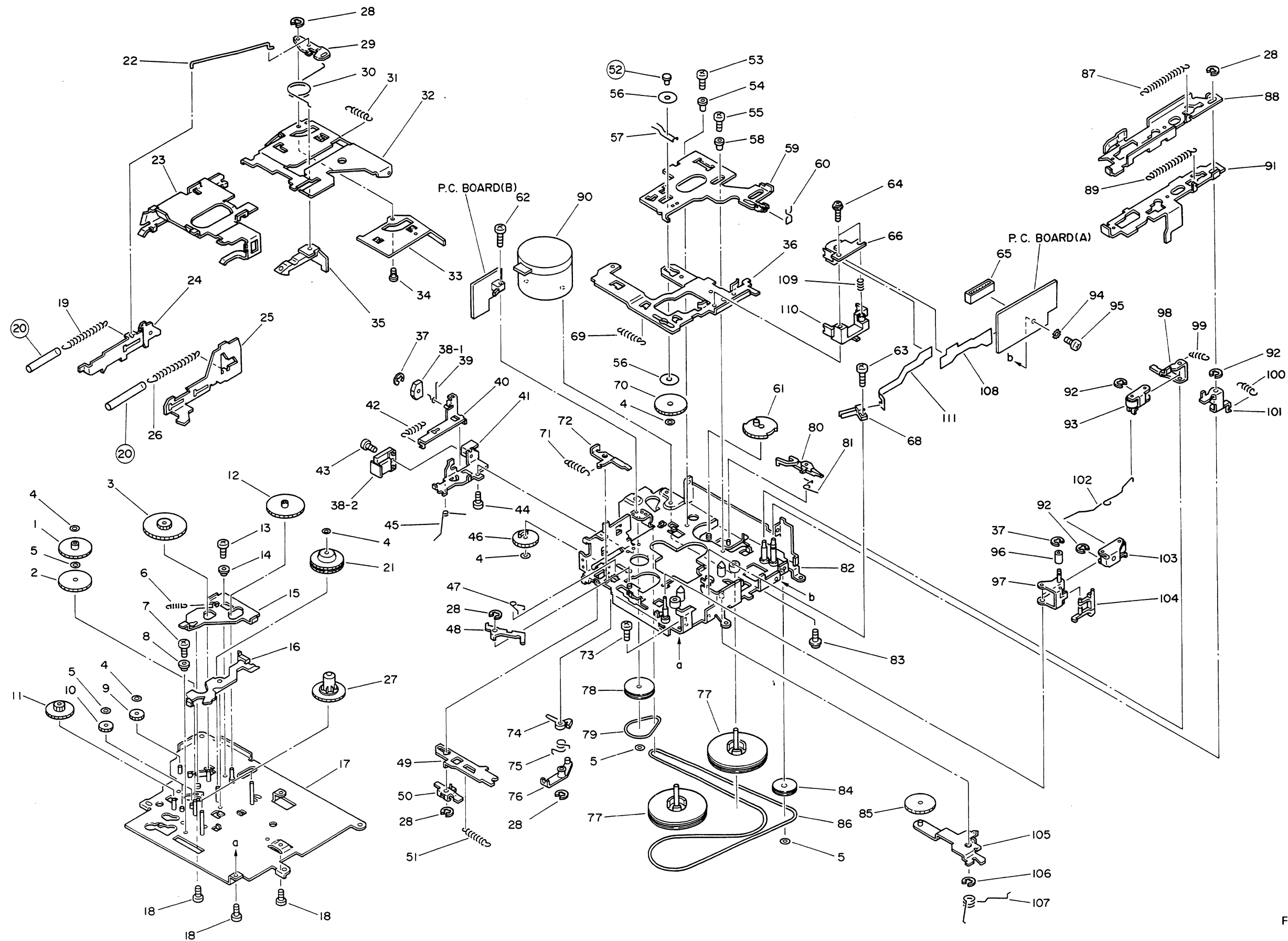


Fig. 23

•Parts List (KEH-M550/US, M7250/CA)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Gear	ENV1212	46	Gear	ENV1262
2	Gear	ENV1211	47	Spring	EBH1337
3	Gear	ENV1203	48	Arm	ENC1236
4	Washer	CBF1037	49	Lever Unit	EXA1173
5	Washer	CBF1038	50	Arm	ENC1237
6	Spring	EBH1338	51	Spring	EBH1335
7	Screw	JFZ17P035FNI	52	Shaft	
8	Shaft	ELA1259	53	Screw	JFZ20P025FNI
9	Gear	ENV1230	54	Collar	ELA1229
10	Gear	ENV1274	55	Screw	JFZ20P040FNI
11	Gear	ENV1264	56	Washer	EBF1015
12	Gear	ENV1204	57	Spring	EBH1372
13	Screw	JFZ17P018FNI	58	Collar	ELA1220
14	Collar	ELA1244	59	Lever	ENC1269
15	Arm	ENC1241	60	Spring	EBH1361
16	Arm	ENV1261	61	Gear	ENV1205
17	Sub Chassis Unit	EXA1169	62	Screw	CBA1054
18	Screw	BMZ20P025FMC	63	Screw	CBA1038
19	Spring (Black)	EBH1306	64	Screw	EBA1024
20	Tube		65	Plug	CKS1056
21	Gear Unit	EXA1159	66	Head	EPB1015
22	Spring	EBH1308	67	P. C. Board	ENP1043
23	Holder	ENC1205	68	Switch	ESN1005
24	Lever	ENC1243	69	Spring	EBH1334
25	Lever	ENC1235	70	Gear	ENV1208
26	Spring	EBH1307	71	Spring	EBH1333
27	Real Unit	EXA1167	72	Arm	ENC1240
28	Washer	YE15FUC	73	Screw	BSZ20P040FMC
29	Arm	ENC1221	74	Arm	ENV1265
30	Spring	EBH1305	75	Spring	EBH1336
31	Spring	EBH1364	76	Arm Unit	EXA1171
32	Frame	ENC1204	77	Flywheel Unit	EXA1161
33	Arm	ENC1215	78	Gear	ENV1229
34	Shaft	ELA1251	79	Belt	ENT1020
35	Lever	ENV1222	80	Arm	ENV1206
36	Head Base Unit	EXA1203	81	Spring	EBH1317
37	Washer	YE12FUC	82	Chassis Unit	EXA1168
38	Solenoid	EXP1008	83	Screw	PMS26P025FUC
39	Spring	EBH1353	84	Pulley	ENV1207
40	Lever Unit	EXA1172	85	Gear	ENV1209
41	Bracket	ENC1239	86	Belt	ENT1018
42	Spring	EBH1339	87	Spring (Silver)	EBH1322
43	Screw	EBA1023	88	Lever (FF)	ENC1244
44	Screw	BMZ20P025FMC	89	Spring (Brown)	EBH1365
45	Spring	EBH1340	90	Motor Unit	EXA1162

Mark No.	Description	Part No.	Mark No.	Description	Part No.
91	Lever (REW)	ENC1245	101	Arm	ENC1264
92	Washer	YE20FUC	102	Spring	EBH1366
93	Pinch Roller Unit	EXA1193	103	Pinch Roller Unit	EXA1194
94	Washer	WH23FMC	104	Arm	ENV1227
95	Screw	BSZ23P040FMC	105	Arm Unit	EXA1155
96	Roller	ELA1247	106	Washer	YE30FUC
97	Arm Unit	EXA1166	107	Spring	EBH1310
98	Arm	ENC1266	108	P. C. Board	ENP1043
99	Spring	EBH1312	109	Spring	EBH1065
100	Spring	EBH1311	110	Guide	ENV1270
			111	P. C. Board	ENP1044

19. PACKING METHOD

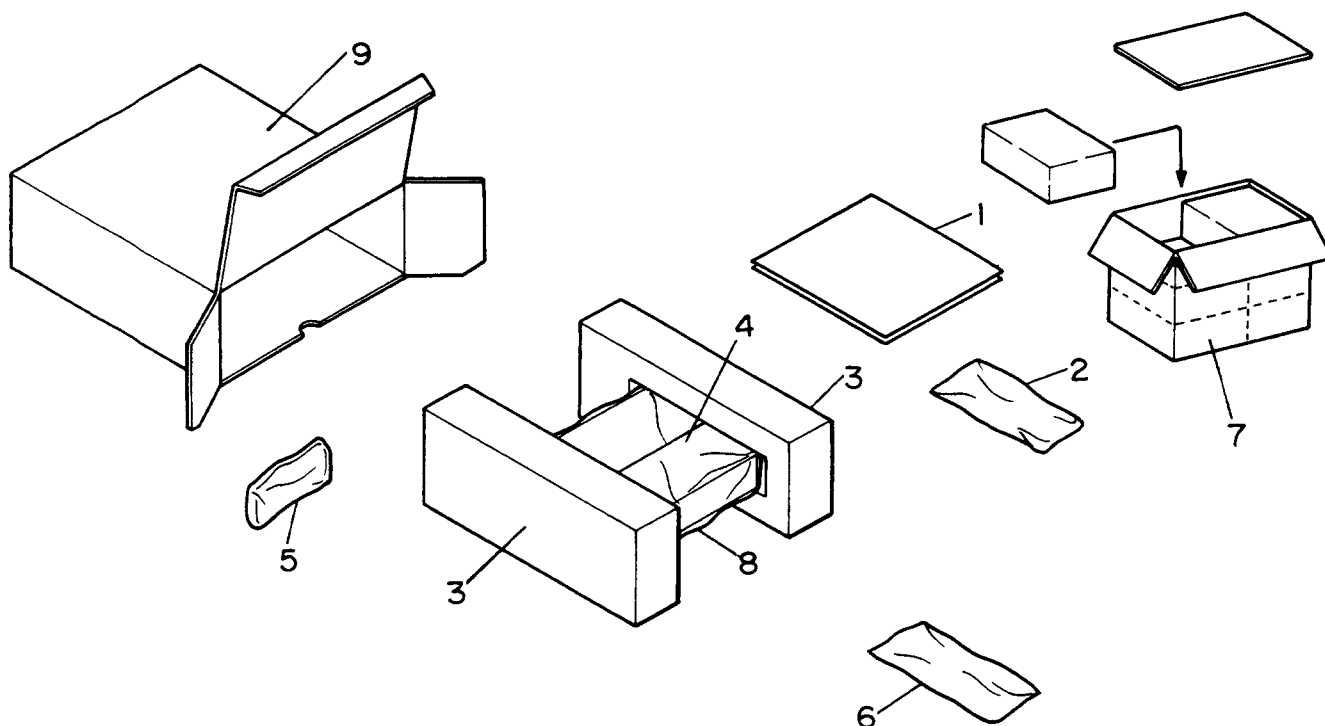


Fig. 24

•Parts List (KEH-M7300/EW)

* :Non spare part

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1-1	Owner's Manual	CRD1478	6-2	Screw(×1)	CBA1002
1-2	Owner's Manual	CRD1489	6-3	Cord	CDE1289
1-3	Installation Manual	CRD1491	6-4	Handle(×2)	CNC3664
* 1-4	Card	CRY-062	6-5	Strap	CNF-111
2	Cord	CDE3182	6-6	Bush	CNV1009
3	Styrofoam	CHP1405	6-7	Nut(×2)	NF50FMC
* 4	Holder	CNC3342	* 7	Contain Box	CHL1986
5	Case	CNS2269	8	Cover	CEG1092
6	Accessory Assy	CEA1633	9	Carton	CHG1986
6-1	Screw(×1)	CBA-102			

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK
No. Description	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1-1 Owner's Manual	CRD1478	CRD1487	CRB1216	CRD1480	CRD1481	CRD1479
1-2 Owner's Manual	CRD1489	----	----	----	----	----
1-3 Installation Manual	CRD1491	----	----	----	----	----
* 1-4 Card	CRY-062	ARY1008	ARY1008	ARY1008	----	CRY-062
2 Cord	CDE3182	CDE3181	CDE3181	CDE3181	CDE3183	CDE3182
7 Contain Box	CHL1986	CHL1989	CHL1991	CHL1990	CHL1988	CHL1987
9 Carton	*CHG1986	CHG1989	CHG1991	*CHG1990	*CHG1988	*CHG1987

Owner's Manual

Part No.	Model	Language
CRD1478	KEH-M7300/EW	English, French, German, Spanish, Portuguese
CRD1489	KEH-M7300/EW	Swedish, Norwegian, Dutch, Italian, Finnish
CRD1487	KEH-M7200/US	English, French
CRB1216	KEH-M550/US	English
CRD1480	KEH-M7250/CA	English, French
CRD1481	KEH-M7250/ES	English, French, Spanish, Arabic
CRD1479	KEH-M7300SDK	French, German

20. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S □□□J, RS1/10S □□□J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Unit Number :

Unit Name : FM/AM Tuner Unit (KEH-M7300SDX/WG)

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	51				PA4012B	R	60				RS1/10S473J
IC	201				PA4017	R	61	105			RS1/10S332J
Q	1			Chip Transistor	2SB709	R	64				RS1/10S222J
Q	2			Chip Transistor	DTC124EK	R	102				RS1/10S822J
Q	51			Chip Transistor	DTA114TK-94	R	106				RS1/10S333J
Q	201				2SK435	R	107				RS1/10S102J
Q	202				2SC2412K	R	108				RS1/10S104J
Q	203	205		Chip Transistor	DTC124EK	R	111				RS1/10S123J
D	201	204		Chip Diode	MA157-WR	R	112				RS1/10S684J
D	205				SVC203-M1	R	151	152	153		RS1/10S222J
L	1	51		Inductor	CTF1241	R	201				RS1/10S220J
L	2			Inductor	CTF1085	R	202				RS1/10S681J
L	101			Inductor	CTF1126	R	203	206	214		RS1/10S222J
L	201			Inductor	CTF1084	R	204	213			RS1/10S473J
L	203			Ferri-Inductor	LAU220K	R	205	209			RS1/10S470J
L	204			Ferri-Inductor	LAU470K	R	207				RS1/10S822J
L	205			Ferri-Inductor	LAU4R7K	R	208	211	212		RS1/10S103J
T	51			Coil	CTE1021	R	210				RS1/10S682J
T	52			Coil	CTE1022	R	215				RS1/10S153J
T	201			Coil	CTB1020						
T	202			Coil	CTB1004						
T	203			Coil	CTB1040						
T	204			Coil	CTE1037						
T	205			Coil	CTE1038						
T	206			Coil	CTE1039						
CG	1				DSP-201M-S00B						
CF	51	52		Ceramic Filter	CTF-182						
CF	201			Ceramic Filter	CTF1041						
CF	202			Filter	CTF1085						
X	151			Ceramic Resonator	CSS1055						
X	201			Crystal Resonator	CSS1014						
VR	1			Semi-fixed	CCP1019						
VR	51	101	102	Semi-fixed 33kΩ (B) FM Front End	VRT84VS333 CWB1035						

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	2	7			RS1/10S223J	C	106				CEA220M6R3LL
R	3				RS1/10S124J	C	107	108			CKSQYB222K50
R	4				RS1/10S682J	C	110				CKSQYB222K50
R	5	13	63		RS1/10S0R0J	C	111				CEA010M50LL
R	6	59	101		RS1/10S331J	C	112				CEA100M16LL
R	10				RS1/10S560J	C	151	152			CEA0R1M50LL
R	15				RS1/10S0R0J	C	153				CKSQYB273K25
R	54				RS1/10S472J	C	154	155	156		CSZAR47M35L
R	56	58	104		RS1/10S393J	C	157				CEA3R3M50LL
R	57				RS1/10S562J	C	201	223	228		CEA101M10LS
											CKSQYB103K25

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	202	212			CKSQYB332K50	D	553	907			HZS9R1J82
C	203	215 216 219 226			CKSQYF473Z25	D	908				ERA15-02VH
C	204	208 210			CKSQYB223K25	D	951				HZS5R6J82
C	205				CCSQCH220J50	D	952				HZS7R5J82
C	206	207			CCSQCH820J50	D	953 958 959				ERA15-02VH
C	211				CEA2R2M50LL	D	954				HZS6R8J82
C	213				CCSQCH390J50	D	957				ERC04-02F
C	217				CEA100M16LL	L	501		Ferri-Inductor		LAU2R2M
C	218				CEA2R2M35NPLL	L	952		Ferri-Inductor		LAU330K
C	220				CCSQCH430J50	IB	501				CWW1302
C	221				CCSQCH100D50	IB	505				CWW1240
C	222				CSZA010K35L	IB	951				CWW1301
C	224				CEA470M16LL	IB	952				CWW1128
C	225				CKSQYB333K25	IB	953				CWW1292
C	227				CEA4R7M35LS	IB	954				CWW1291
C	229				CEA470M16LS	X	501		Crystal Resonator		CSS1011
C	230				CEA220M16LL	X	701		Ceramic Resonator		CSS1019
						VR	351 352		Semi-fixed 33k Ω (B)		VRT66VS333
						S	2		Switch (Clear)		CSG1012
						IL	951		Lamp (Green)		CEL1207
						IL	952		Lamp (Orange)		CEL1208
						VR	1		Volume (Fader)		CCS1186
						EF	953 954 955		EMI filter		CCG1003
						BZ	902		Buzzer		CPV1013

Unit Number :

Unit Name : Tuner Amp Unit (KEH-M7300SDK/WG)

Tuner Amp Unit

Consists of

- Tuner Amp P. C. Board
- SDK P. C. Board

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	350				TA8162SN
IC	351				CXA1102P
IC	352				AN6263N
IC	451				KHA272
IC	501				TA8215H-A
IC	502				PD4302
IC	701				KHAC02
IC	951				TA8214K
Q	350 457 458 502 506 950 958 959 962 975				DTC114TS
Q	351 352 551 552 807 808				DTC314TS
Q	451 452 453 454				DTC114TS
Q	455 509				DTA114TS
Q	456 800				DTA114ES
Q	501 504 703 963 969				2SC2458
Q	503				2SC2498
Q	505				2SK330
Q	510				2SC3113
Q	550 553 976				DTC114YS
Q	554 805 806 966				2SA1048
Q	701				DTB123YS
Q	702				DTC114WS
Q	801 802				2SC2458
Q	917				2SD2037
Q	918 978 980		Chip Transistor		DTC114TK
Q	951 952 953				DTB123YS
Q	954				DTC114TS
Q	955 956				DTC314TS
Q	957 961 964				DTA1432S
Q	960 977 979				2SB1243
Q	965				DTC114TS
Q	974				2SB772
D	350 440 504 505 506 507 511				1SS133
D	450				1S1555
D	451 452 453 454 501 502 550 551 552				1SS133
D	503 700				HZS3R0EB2

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	351 352				RS1/10S104J
R	353 354				RS1/10S133J
R	355 356				RS1/10S183J
R	357 358				RS1/10S334J
R	359 360				RS1/10S181J
R	361 362 502 522				RS1/10S222J
R	363 364				RS1/10S822J
R	366 501 504 955 957 958				RS1/10S103J
R	367 537 954				RS1/10S473J
R	368 702				RS1/10S684J
R	369				RD1/4PS154JL
R	370				RS1/10S154J
R	371 372				RS1/10S473J
R	373 515 519 956				RS1/10S101J
R	375				RS1/10S0R0J
R	376 543 544 545 546 549 601 602 821				RS1/10S0R0J
R	379				RS1/10S0R0J
R	380 381 822 873				RS1/10S0R0J
R	382 383 384 614 615 616 988 989 990				RS1/8S0R0J
R	385 386 486 618 992				RS1/8S0R0J
R	389 824 993				RS1/8S0R0J
R	390				RS1/8S0R0J
R	392				RS1/10S104J
R	393				RS1/8S0R0J
R	451 452 509 961				RD1/4PS473JL
R	453 454				RS1/10S102J
R	455 456 524 527 529 805 806				RS1/10S473J
R	457				RS1/8S223J
R	458				RD1/4PM223J
R	459 460				RS1/10S563J
R	461 462				RS1/10S333J
R	469 470 475 476 541 542 547				RS1/10S0R0J
R	473 474				RS1/10S183J
R	479 483 605 987				RS1/10S0R0J
R	480 482				RS1/10S0R0J

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	485	606 607 608 610 611 613			RS1/8S0R0J	C	369	964			CKSQYB103K50
R	487	520 521 815 816 920 985 986			RS1/10S102J	C	370				CCSQCH330J50
R	503	563 819 820 970			RS1/10S223J	C	372	563			CEA0R1M50LS2
R	505	801 802			RS1/10S221J	C	383	384	4.7 μ F/35V		CCH1016
R	506				RD1/4PS222JL	C	455	953			CEA470M16L2
R	507				RD1/4PS392JL	C	456				CEA100M16LS2
R	508				RS1/10S823J	C	500				CASAQ4R7M10
R	510	516			RS1/10S472J	C	501				CCG1008
R	511	534			RS1/8S104J	C	502	504 505 507 520 702			CKPYB103M16L
R	512				RD1/4PM102J	C	509	526			CKSYB102K50
R	513				RS1/10S152J	C	511				CKPYB101K50L
R	514				RS1/10S182J	C	512				CKSY8881K50
R	517				RS1/10S331J	C	513				CCSQCH101J50
R	518				RS1/10S821J	C	515		4.7 μ F/16V		CCH1005
R	523	564 703 921 973			RS1/10S222J	C	516				CEAR47M50LS2
R	525				RS1/10S474J	C	517		1000 μ F/6.3V		CCH1112
R	526				RD1/4PM102J	C	518				CCSQCH100D50
R	530	531			RS1/10S681J	C	525				CCSQCH090D50
R	532	533			RS1/8S681J	C	527				CKSQYF104Z25
R	538				RS1/10S563J	C	528				CKSQYB473K25
R	539				RS1/10S0R0J	C	550				CEA101M10L2
R	540				RS1/10S104J	C	551	552			CEHAS4R7M35
R	548				RS1/10S102J	C	553	554 805 806 962			CKSQYB102K50
R	550				RS1/10S391J	C	556				CEHAQ101M10
R	553				RD1/4PS392JL	C	557	558			CEHAQ470M25
R	554				RD1/4PM392J	C	559	561 562			CQEA224J63
R	555	556			RD1/4PS471JL	C	560				CQEA224J63
R	557	558 559 560			RD1/4PS4R7JL	C	564				CEA472M16L2
R	561	562			RS1/10S152J	C	600				CASAQ100M10
R	701				RS1/8S473J	C	703				CQMA683J50LL
R	800				RS1/10S470J	C	704				CEAR33M50LS2
R	803	804			RS1/10S223J	C	800				CEA221M10L2
R	807	808 817 818			RS1/10S471J	C	801	802 807 808			CEA4R7M35LS
R	809	810			RS1/10S681J	C	803	804			CEALNP100M16
R	811	812			RS1/10S133J	C	913				CEA220M16LS
R	813	814			RS1/10S472J	C	951		470 μ F/10V		CCH1019
R	922				RS1/8S472J	C	952	963			CKSQYB473K25
R	923				RS1/10S472J	C	956				CCG1008
R	950				RS1/8S0R0J	C	961				CEA2R2M50LS2
R	951				RS1/8S681J						
R	952	971 976			RD1/2PS681JL						
R	953				RS1/8S223J						
R	959	965			RS1/10S102J						
R	960	977 978 979 980 981			RS1/8S103J						
R	969				RS1/10S1R0J						
R	974				RD1/4PS152JL						
R	975				RS1/8S223J						
R	999				RD1/4PM104J						

CAPACITORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
C	350	371			CEA101M10LS
C	351	352			CCSQCH681J50
C	353	354 363 701 705 914 954 957			CEA470M16LS
C	355	356 510 514			CKSQYB103K50
C	357	361 362 955 958			CEA100M16LS2
C	358	380 381 451 452 453 454 457 458 706			CEA4R7M35LS
C	359	360			CEA010M50LS2
C	364	555			CKSQYF104Z25
C	365				CEA101M10LS
C	367	368			CEAR68M50LS2

Unit Number :

Unit Name : Key Board Unit (KEH-M7300SDK/WG)

MISCELLANEOUS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IC	901				S-80740AH
IC	902				PD4285
IC	903				LC7582A
D	901 902 903 904 905			Chip Diode	DCC010
L	901			Ferri-Inductor	LAU101K
X	901			Ceramic Resonator	CSS1050
				LCD	CAW1124
IL	902 904 905 906 907 912			Lamp (Green)	CEL1207
IL	908 909 910 911 913			Lamp (Orange)	CEL1208
S	901 902 903 904 905 906 907 908 909 910				CSG-253
	911 912 913 914 915 916 917 918 919			Switch	

RESISTORS

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	901 902 903 904 905				RS1/8S103J
R	906				RS1/10S104J
R	907				RS1/10S473J
R	908				RS1/10S103J
R	909 910 911 912 913 914 915 916 917 918				RS1/10S471J

CAPACITORS

Mark	=====	Circuit Symbol & No.	=====	Part Name	Part No.	
C	901				CEA470M6R3LS	
C	902				CKSQYF473Z25	
C	903				CCSQCH331J50	
C	904	905			CKSQYB103K50	
C	906	907			CCSQCH221J50	
C	908	909	910	911	912	CKSQYB152K50

Unit Number :
Unit Name : P.C. Board (A)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S	2			Switch (FWD/REV)	ESH1003

Unit Number :
Unit Name : P.C. Board (B)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
D	1				F1SR35-100A
S	3			Switch (Tape/Tun)	ESH1004
SO	1			Solenoid	EXP1008

Miscellaneous Parts List (KEH-M7300SDK/WG)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
HD	1			Head Unit	EXA1163
M	1			Motor Unit	EXA1162

KEH-M7300

Tuner Amp Unit

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK/WG
TC501	----	CCG-070	CCG-070	CCG-070	CCG-070	----
IL952	CEL1208	CEL1025	CEL1025	CEL1025	CEL1025	CEL1208
IC502	PD4302	PD4343A	PD4343A	PD4343A	PD4343A	PD4302
IC701	----	----	----	----	----	KHA142
Q453, 454	----	----	----	----	----	DTC114TS
Q459, 460	----	----	----	----	DTC114TS	----
Q506	DTC114TS	----	----	----	----	DTC114TS
Q701	----	----	----	----	----	DTB123YS
Q702	----	----	----	----	----	DTC114WS
Q703	----	----	----	----	----	2SC2458
Q850	----	DTA114ES	DTA114ES	DTA114ES	DTA114ES	----
Q851, 852	----	2SC2458	2SC2458	2SC2458	2SC2458	----
Q853, 854	----	2SA1048	2SA1048	2SA1048	2SA1048	----
Q855, 856	----	DTC314TS	DTC314TS	DTC314TS	DTC314TS	----
Q917	----	----	----	----	----	2SD2037
Q971, 973	----	----	----	----	DTC144TS	----
Q972	----	----	----	----	DTA144ES	----
D508	----	1SS133	1SS133	1SS133	----	----
D509	----	----	----	----	1SS133	----
D511	----	----	----	----	----	1SS133
D700	----	----	----	----	----	HZS3R0EB2
D907	----	----	----	----	----	HZS9R1JB2
X701	----	----	----	----	----	CSS1019
R351, 352	RS1/10S104J	RS1/10S104J	RS1/10S223J	RS1/10S223J	RS1/10S104J	RS1/10S104J
R463, 464	----	----	----	----	RS1/10S303J	----
R465, 466	----	----	----	----	RS1/10S683J	----
R503, 970	----	----	----	----	RS1/10S223J	----
R570, 967, 968	----	----	----	----	RS1/10S222J	----
R571	----	----	----	----	RS1/10S473J	----
R606, 610, 611, 992	----	----	----	----	----	RS1/8S0R0J
R612, 619, 620	----	----	----	----	RS1/8S0R0J	----
R615	RS1/8S0R0J	----	----	----	----	RS1/8S0R0J
R701	----	----	----	----	----	RS1/8S473J
R702	----	----	----	----	----	RS1/10S684J
R703	----	----	----	----	----	RS1/10S222J
R850	----	RS1/10S470J	RS1/10S470J	RS1/10S470J	RS1/10S470J	----
R851, 852	----	RS1/10S221J	RS1/10S221J	RS1/10S221J	RS1/10S221J	----
R853, 854, 869, 870	----	RS1/10S223J	RS1/10S223J	RS1/10S223J	RS1/10S223J	----
R855, 856	----	RS1/10S473J	RS1/10S473J	RS1/10S473J	RS1/10S473J	----
R857, 858, 867, 868	----	RS1/10S471J	RS1/10S471J	RS1/10S471J	RS1/10S471J	----
R859, 860	----	RS1/10S681J	RS1/10S681J	RS1/10S681J	RS1/10S681J	----
R861, 862	----	RS1/10S133J	RS1/10S133J	RS1/10S133J	RS1/10S133J	----
R863, 864	----	RS1/10S472J	RS1/10S472J	RS1/10S472J	RS1/10S472J	----
R865, 866	----	RS1/10S102J	RS1/10S102J	RS1/10S102J	RS1/10S102J	----
R923	----	----	----	----	RS1/10S472J	RS1/10S472J

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK/WG
R991	----	RS1/8S0R0J	RS1/8S0R0J	RS1/8S0R0J	RS1/8S0R0J	----
R998	----	RD1/4PS222JL	RD1/4PS222JL	RD1/4PS222JL	----	----
C351, 352	CCSQCH681J50	CCSQCH681J50	CCSQCH331J50	CCSQCH331J50	CCSQCH681J50	CCSQCH681J50
C516	CEAR47M50LS2	----	----	----	----	CEAR47M50LS2
C525	CCSQCH090D50	----	----	----	----	CCSQCH090D50
C529	----	----	----	----	CKSQYF104Z25	----
C701, 705, 914	----	----	----	----	----	CEA470M16LS
C702	----	----	-----	-----	----	CKPYY103M16L
C703	----	----	----	----	----	CQMA683J50LL
C704	----	----	----	----	----	CEAR33M50LS2
C706	----	----	----	----	----	CEA4R7M35LS
C850	----	CEA221M10L2	CEA221M10L2	CEA221M10L2	CEA221M10L2	----
C851, 852, 857, 858	----	CEA4R7M35LS	CEA4R7M35LS	CEA4R7M35LS	CEA4R7M35LS	----
C853, 854	----	CEALNP100M16	CEALNP100M16	CEALNP100M16	CEALNP100M16	----
C855, 856	----	CKSQYB102K50	CKSQYB102K50	CKSQYB102K50	CKSQYB102K50	----
C913	----	----	----	----	----	CEA220M16LS

FM/AM Tuner Unit

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK/WG
Q3	----	2SA1162	2SA1162	2SA1162	----	----
Q51	----	----	----	----	----	DTA114TK
D11, 12	----	1SV128A-BB	1SV128A-BB	1SV128A-BB	----	----
VR1	CCP1019	CCP1025	CCP1025	CCP1025	CCP1019	CCP1019
L2	CTF1086	----	----	----	----	CTF1086
L11, 12	----	CTF1065	CTF1065	CTF1065	----	----
L101	CTF1126	CTF1170	CTF1170	CTF1170	CTF1126	CTF1126
L201	CTF1084	CTF1026	CTF1026	CTF1026	CTF1026	CTF1084
R3	RS1/10S124J	RS1/10S683J	RS1/10S683J	RS1/10S683J	RS1/10S124J	RS1/10S124J
R8	----	RS1/10S331J	RS1/10S331J	RS1/10S331J	----	----
R9	----	RS1/10S223J	RS1/10S223J	RS1/10S223J	----	----
R10	RS1/10S560J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S560J
R11	----	RS1/10S104J	RS1/10S104J	RS1/10S104J	----	----
R12	----	RS1/10S470J	RS1/10S470J	RS1/10S470J	----	----
R13	RS1/10S0R0J	----	----	----	RS1/10S0R0J	RS1/10S0R0J
R14	----	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	RS1/10S0R0J	----
R58	RS1/10S393J	RS1/10S223J	RS1/10S223J	RS1/10S223J	RS1/10S393J	RS1/10S393J
R60	----	----	----	----	----	RS1/10S473J
R61	RS1/10S332J	----	----	----	----	RS1/10S332J
R101	RS1/10S331J	RS1/10S471J	RS1/10S471J	RS1/10S471J	RS1/10S471J	RS1/10S331J
R151, 152	RS1/10S222J	RS1/10S152J	RS1/10S152J	RS1/10S152J	RS1/10S152J	RS1/10S222J
C11, 12, 13, 14	----	CCSQCH220J50	CCSQCH220J50	CCSQCH220J50	----	----
C15	----	CKSQYB223K25	CKSQYB223K25	CKSQYB223K25	----	----
C57	CSZAR33K35	CEAR68M50LS2	CEAR68M50LS2	CEAR68M50LS2	CSZAR33K35	CSZAR33K35
C101	CKSQYB822K50	CKSQYB392K50	CKSQYB392K50	CKSQYB392K50	CKSQYB392K50	CKSQYB822K50
C151, 152	CKSQYB273K25	CKSQYB563K25	CKSQYB563K25	CKSQYB563K25	CKSQYB563K25	CKSQYB273K25

Key Board Unit

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK/WG
1L908-911, 913	CEL1208	CEL1025	CEL1025	CEL1025	CEL1025	CEL1208

Miscellaneous Parts List

	M7300/EW	M7200/US	M550/US	M7250/CA	M7250/ES	M7300SDK/WG
HD1	EXA1163	EXA1163	EPB1015	EPB1015	EXA1163	EXA1163